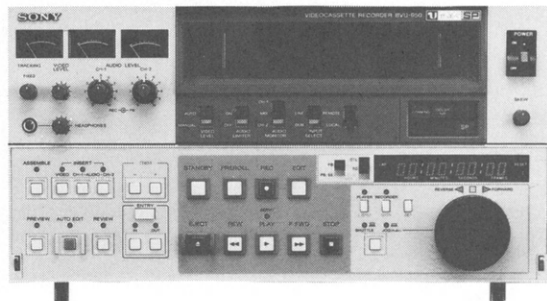


# VIDEOCASSETTE RECORDER

# BVU-950



Professional    
 MAINTENANCE MANUAL  
 Volume 2 1st Edition  
 Serial No.10001 and Higher

Warning—This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart J of Part 15 of FCC Rules.

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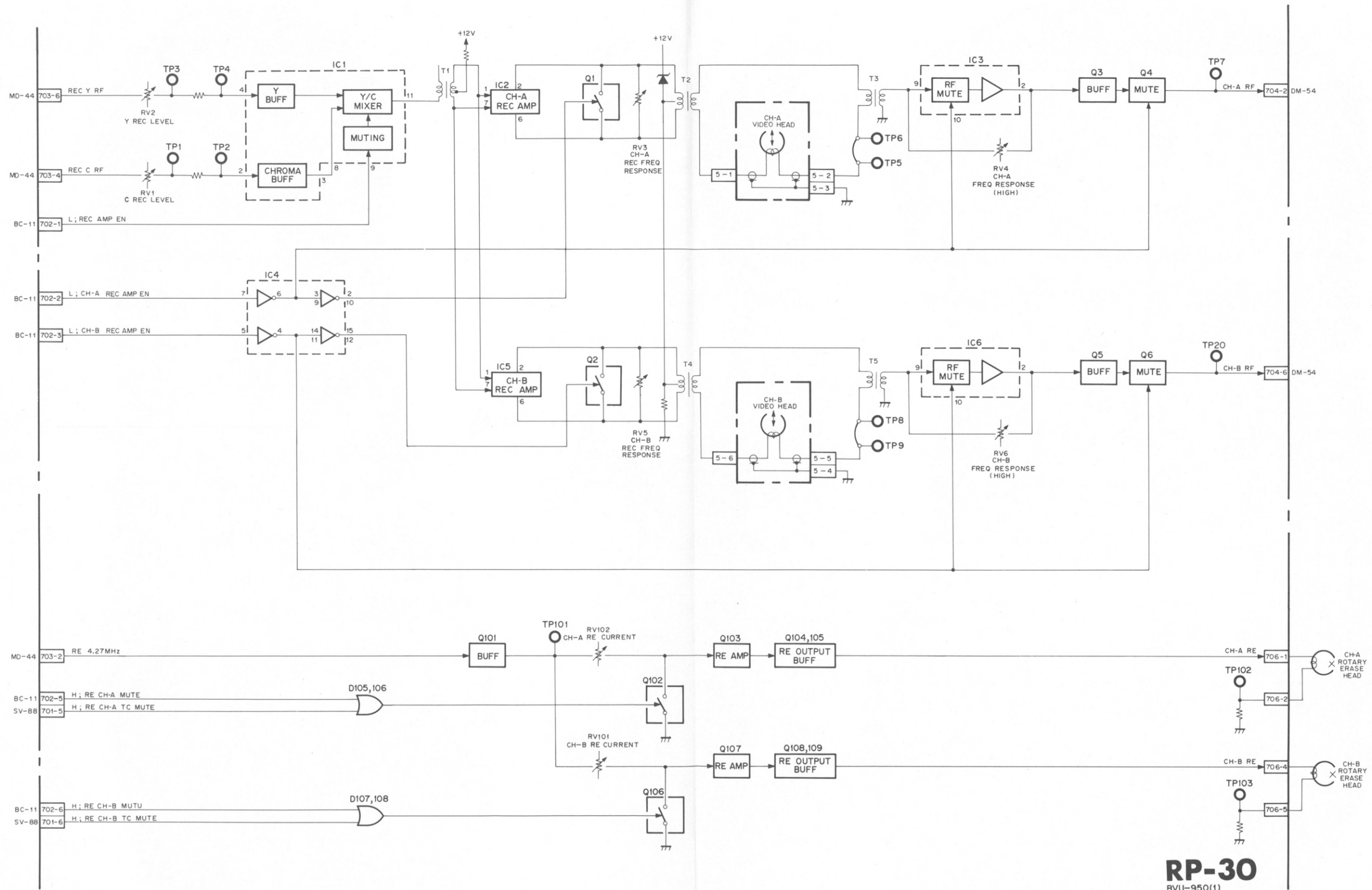
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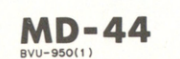
## RF REC/PB /ROTARY ERASE



**RP-30**  
BVU-950(1)



|               |               |
|---------------|---------------|
| Y/C MODULATOR | Y/C MODULATOR |
|---------------|---------------|





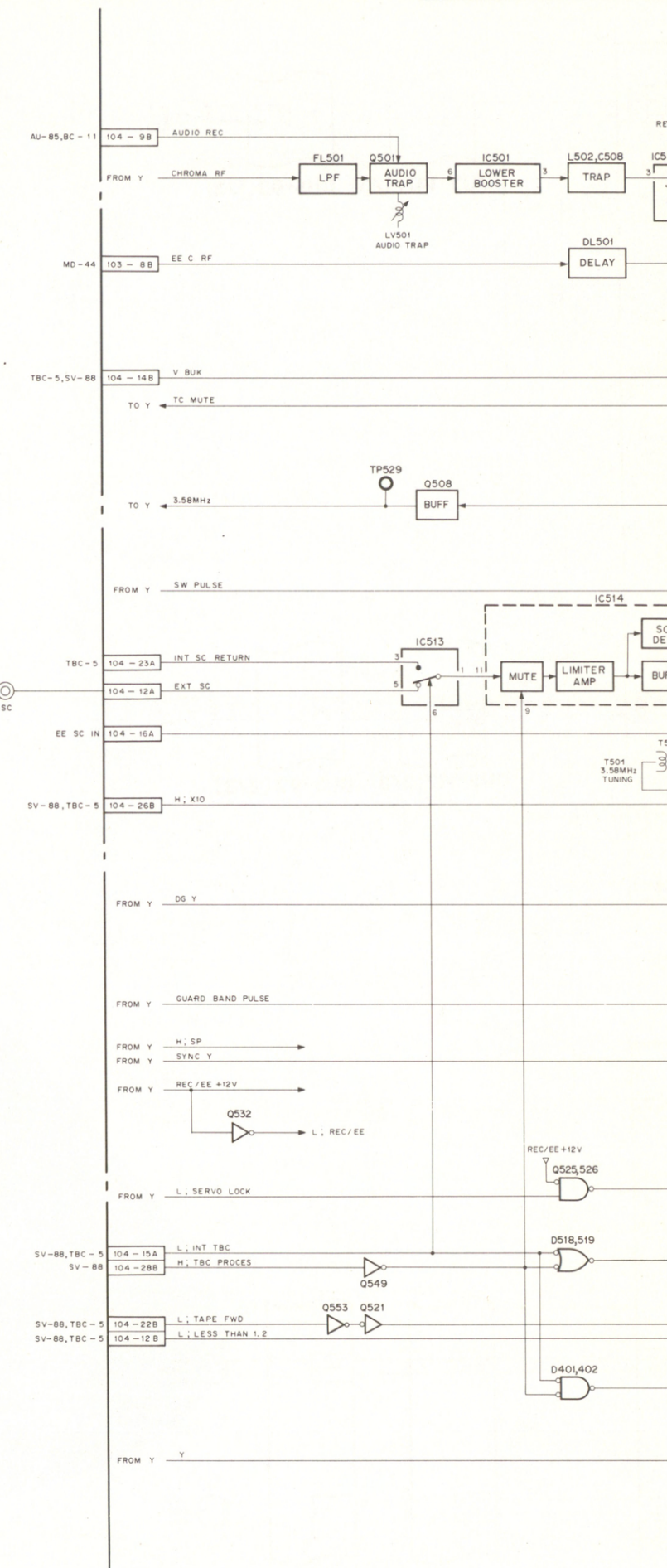
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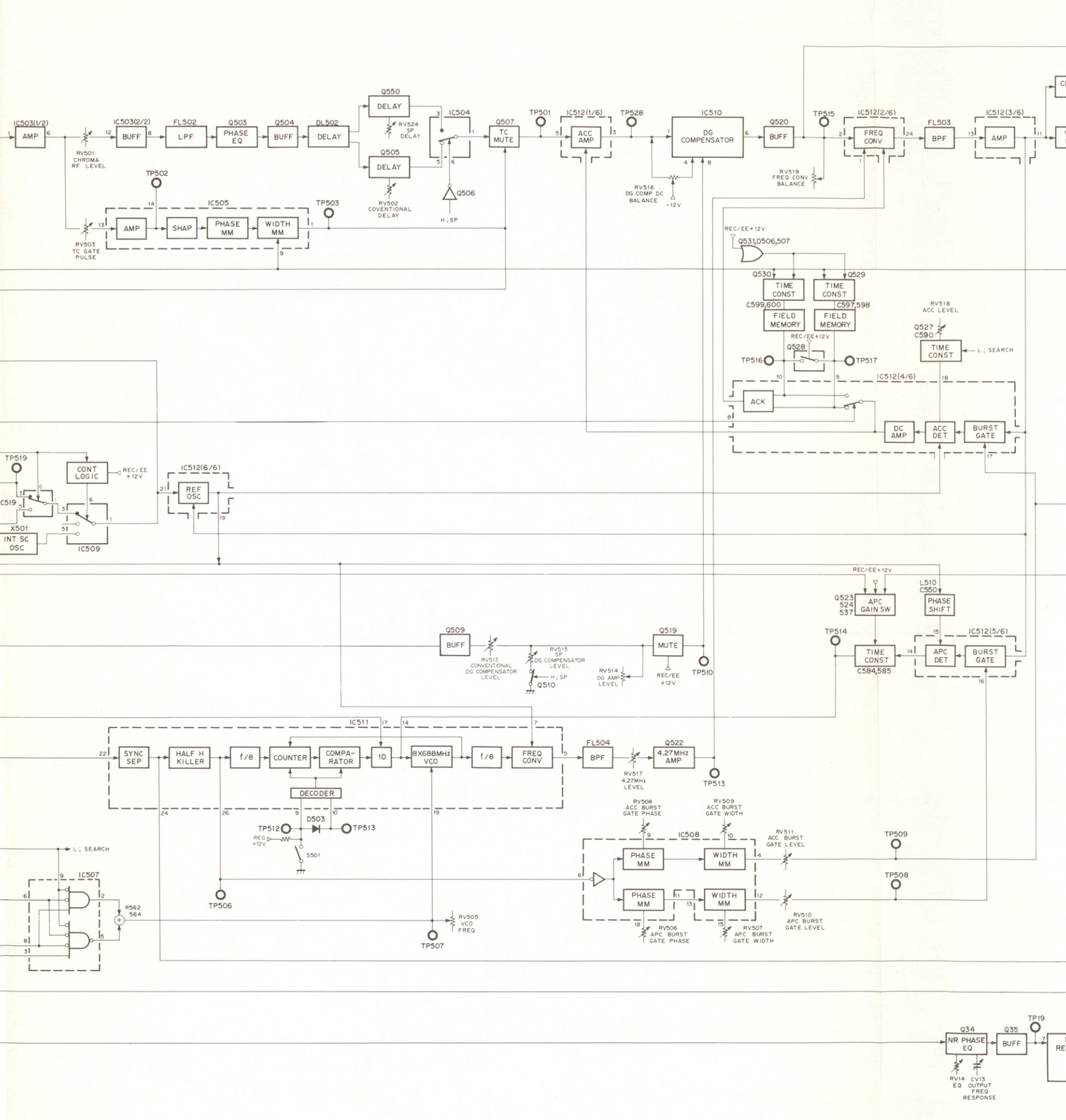
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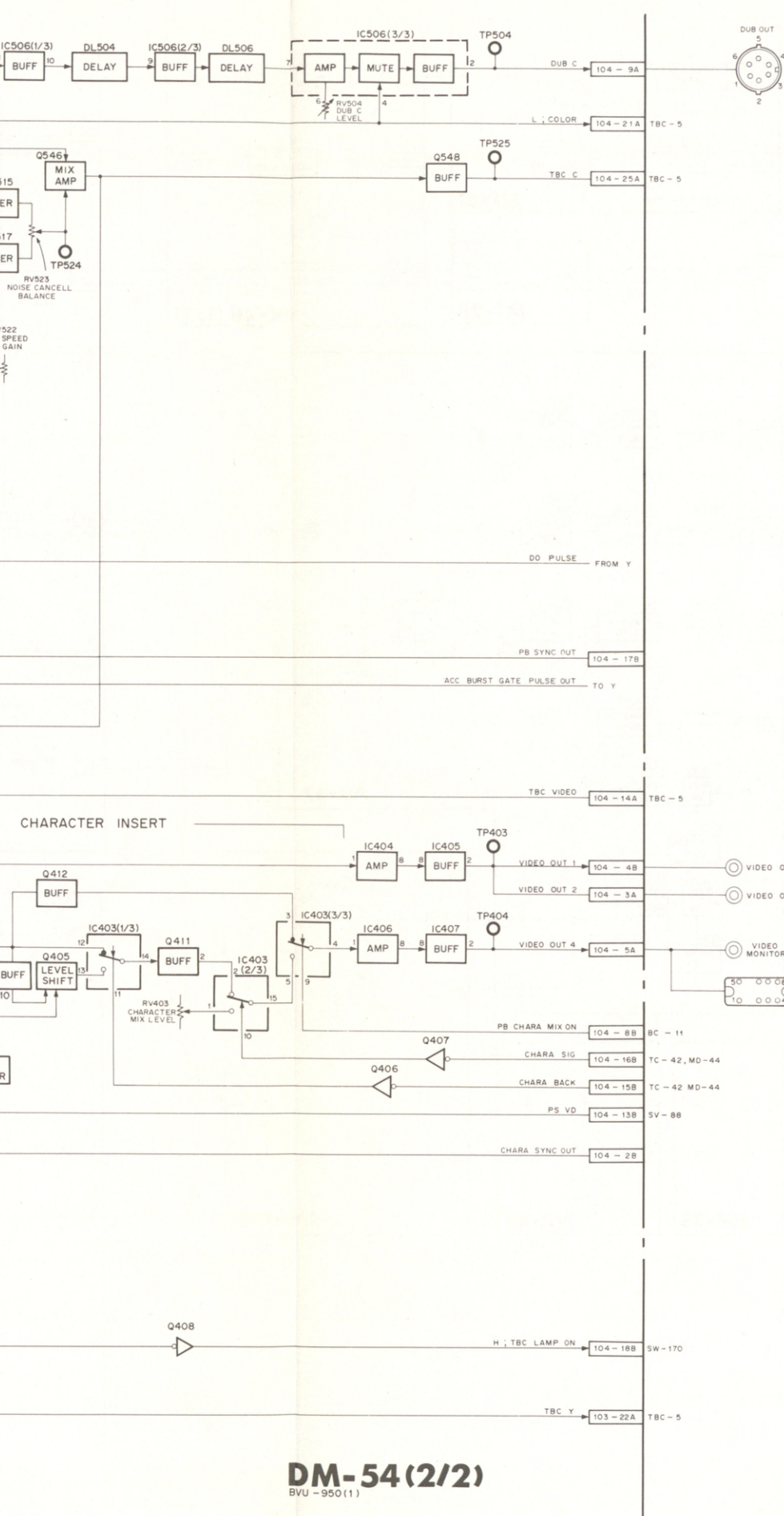
# C DEMODULATOR



# C DEMODULATOR



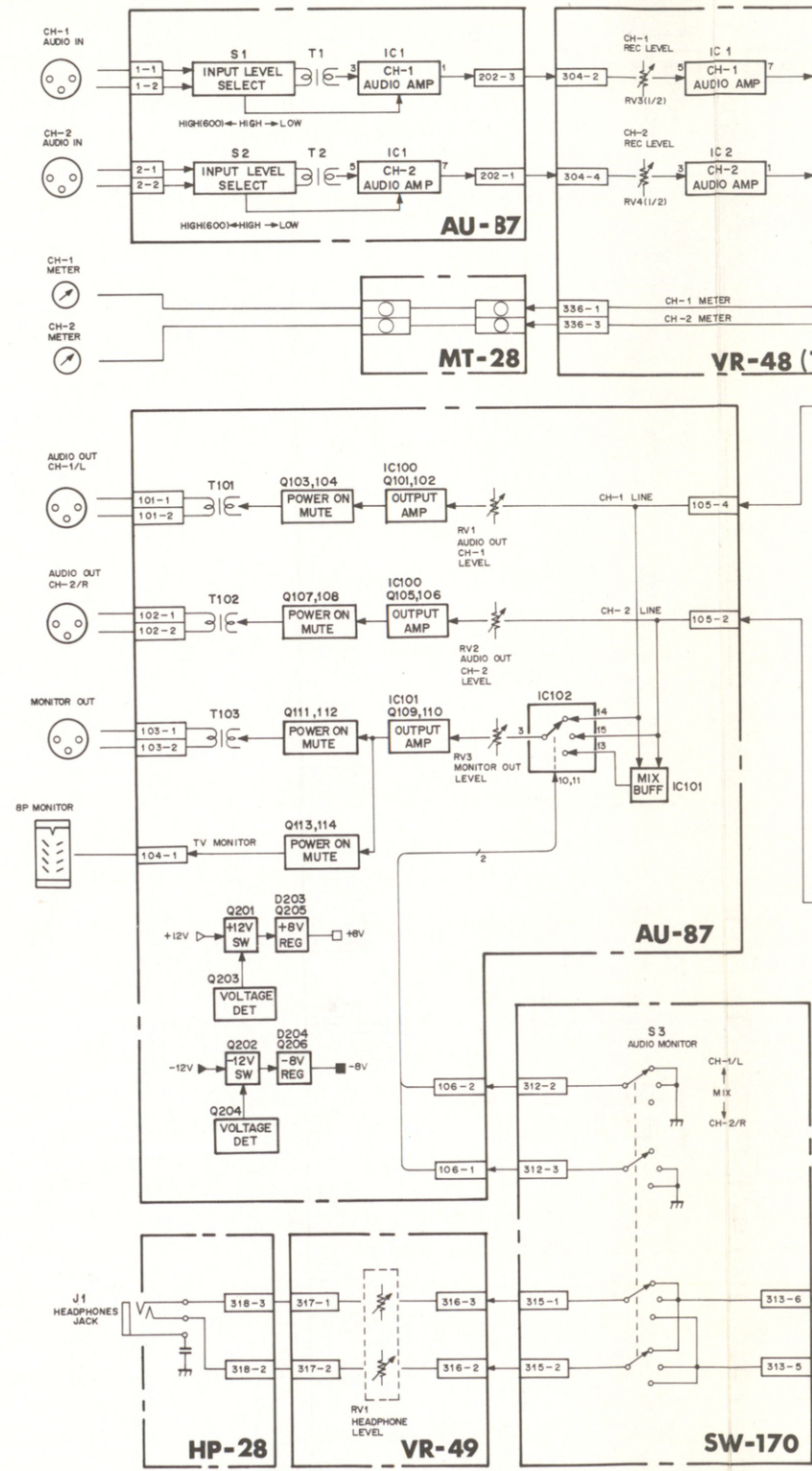
# C DEMODULATOR



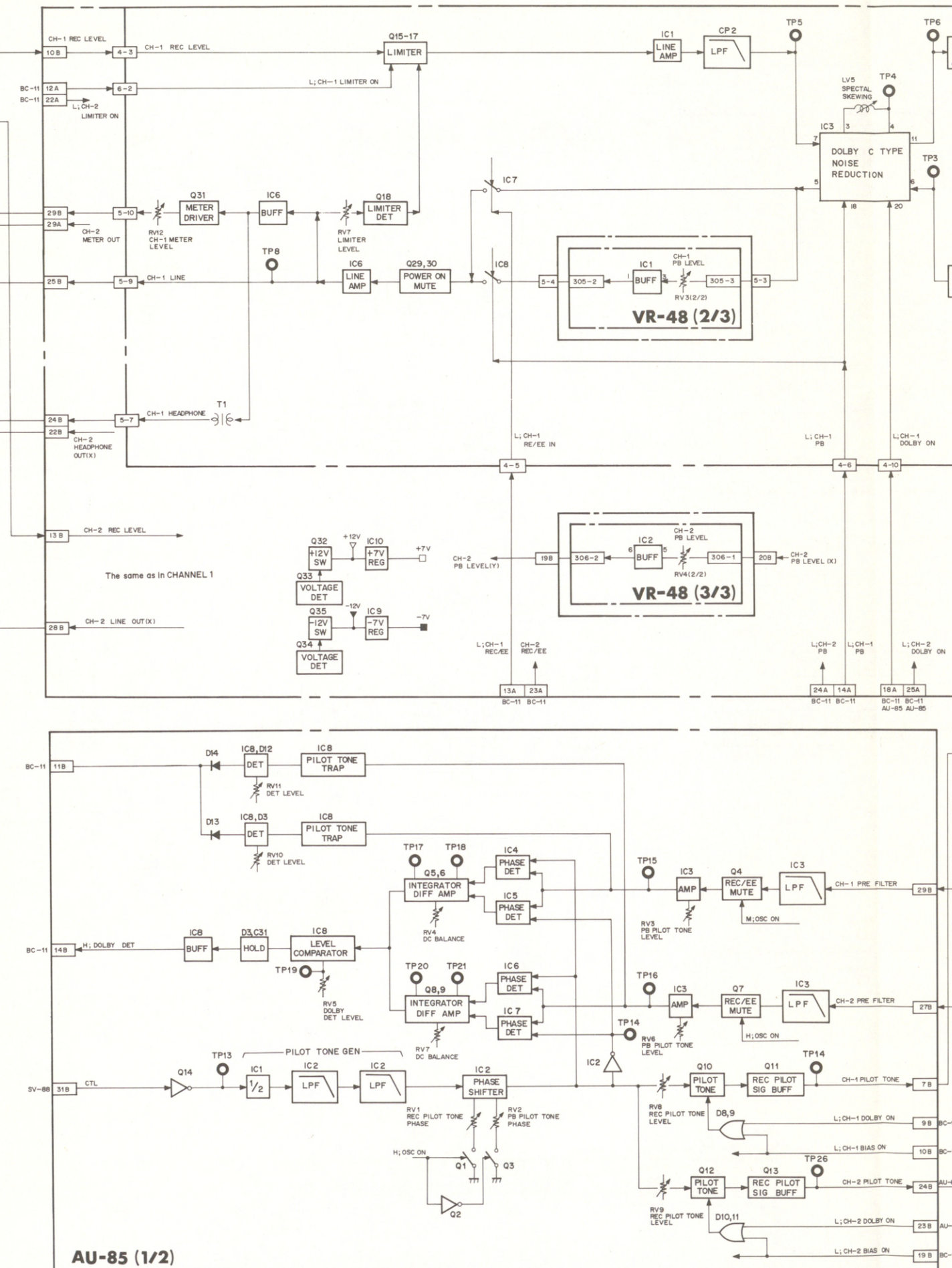
DM-54(2/2)  
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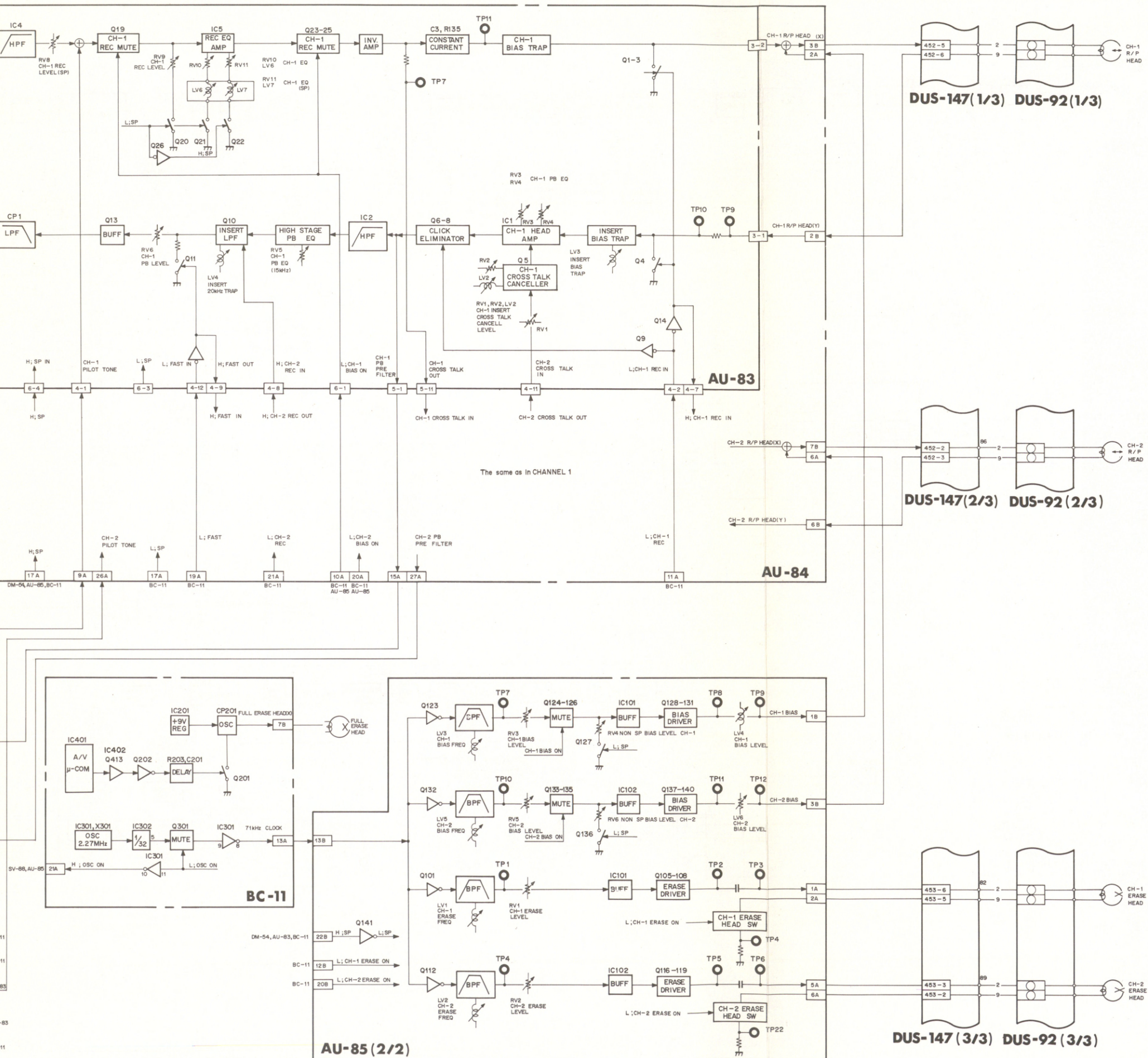
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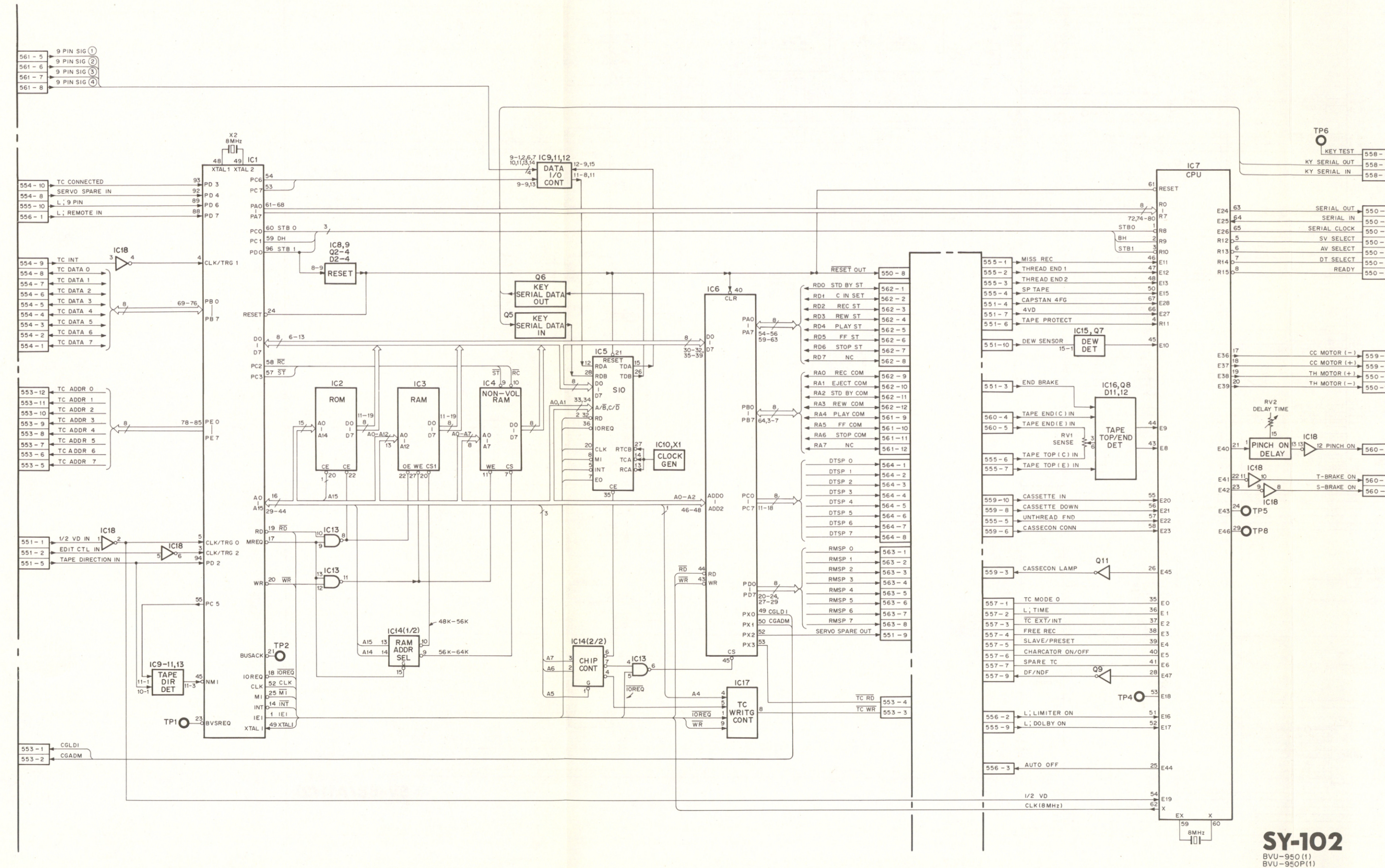
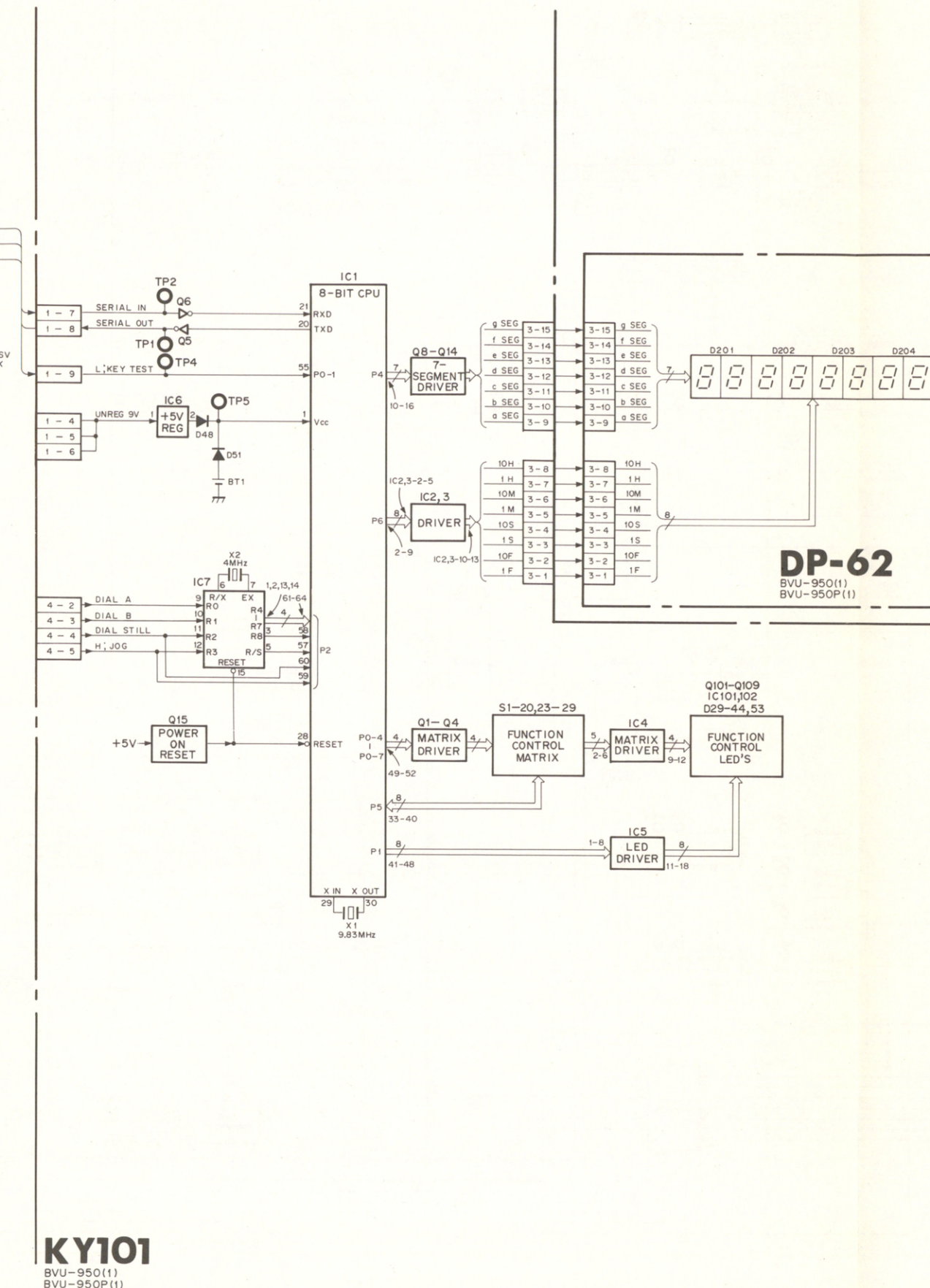
## AUDIO SYSTEM AUDIO SYSTEM



## AUDIO SYSTEM AUDIO SYSTEM

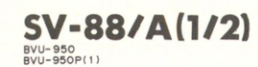




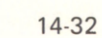
SY-102  
BVU-950(1)  
BVU-950P(1)KY101  
BVU-950(1)  
BVU-950P(1)



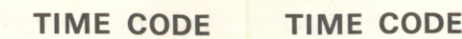
| REEL SERVO | REEL SERVO |
|------------|------------|
|------------|------------|





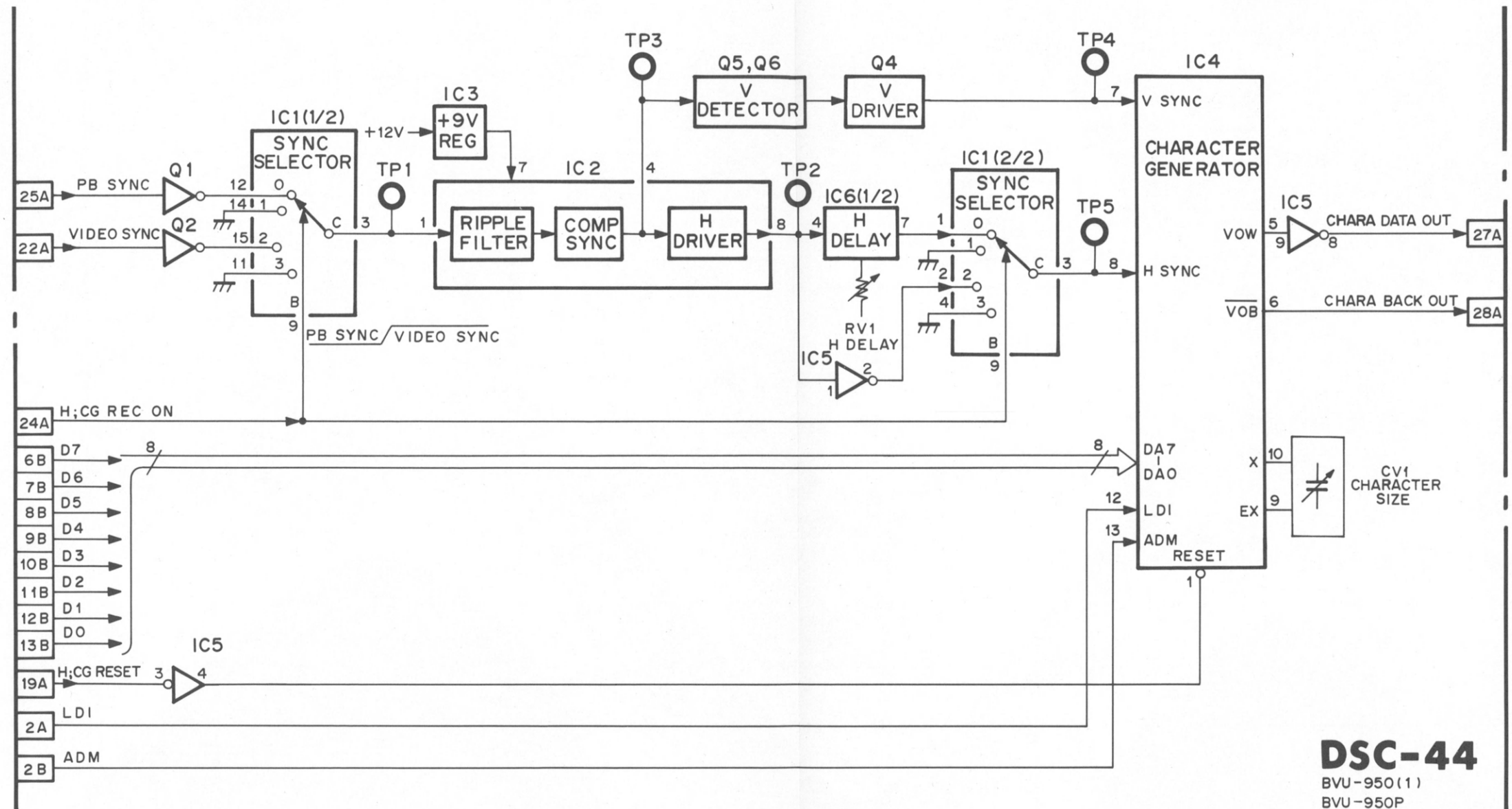








CHARACTER GENERATOR



## SECTION 15 SEMICONDUCTOR ELECTRODES

ここに記載されているIC、トランジスタ、ダイオードは、それぞれの機能を等価的に表わしたものです。したがって互換性を表わすものではありません。(互換性のない型名が併記されている事もあります。)部品の交換をする時は、SPARE PARTSの章を参照して下さい。

ICs, transistors and diodes whoses functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

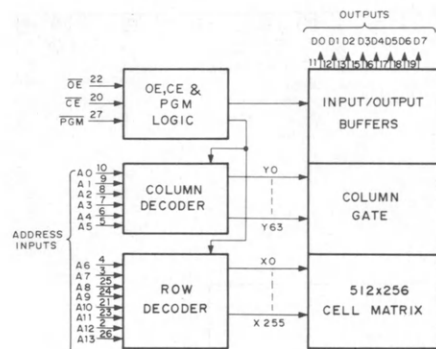
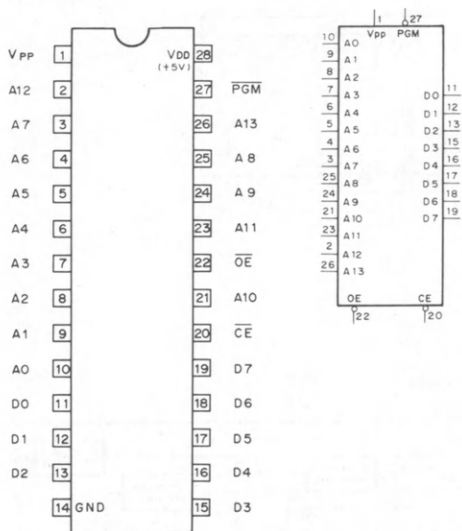
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The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

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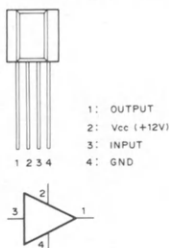
27128-25 (INTEL) (ACCESS TIME = 250 nS)  
N-MOS UV EPROM 128K-BIT (16384x8)  
— TOP VIEW —



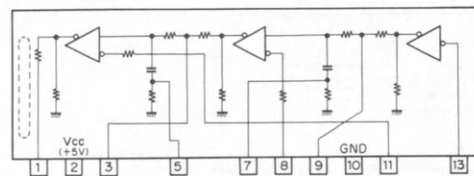
| TERMINAL MODE          | CE | OE | PGM | Vpp  | Vcc  | OUTPUTS        |
|------------------------|----|----|-----|------|------|----------------|
| READ                   | 0  | 0  | 1   | +5V  | +5V  | DATA OUT       |
| STANDBY                | 1  | X  | X   | +5V  | +5V  | HIGH IMPEDANCE |
| PROGRAMMING            | 0  | 1  | 0   | +21V | +21V | DATA IN        |
| PROGRAM VERIFY         | 0  | 0  | 1   | +21V | +5V  | DATA OUT       |
| PROGRAM INHIBIT        | 1  | X  | X   | +21V | +5V  | HIGH IMPEDANCE |
| HIGH SPEED PROGRAMMING | 0  | 1  | 0   | +21V | +6V  | DATA IN        |

1 ; TTL LEVEL HIGH VOLTAGE IN  
0 ; TTL LEVEL LOW VOLTAGE IN  
X ; DON'T CARE (1 OR 0)

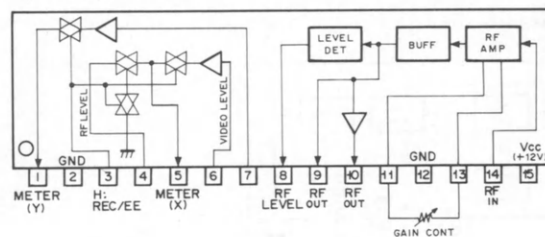
AN607P (MATSUSHITA)  
AN608P (MATSUSHITA)  
WIDE BAND AMPLIFIER  
— PRINTED SIDE VIEW —



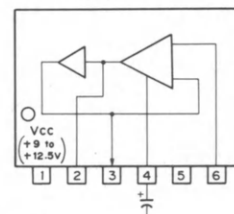
BX1140L (ROHM)  
HF AMP  
— REAR VIEW —



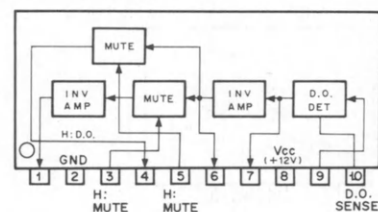
BX1246L (ROHM)  
RF AND VIDEO LEVEL METER DRIVER  
— PRINTED SIDE VIEW —



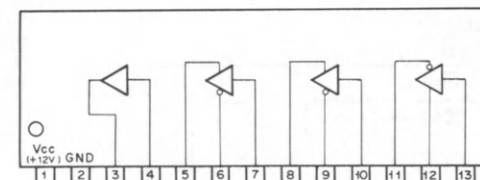
BX1247L (ROHM)  
LOWER FREQUENCY BOOSTER AMPLIFIER  
— PRINTED SIDE VIEW —



BX1248L (ROHM)  
DROPOUT DETECTOR  
— PRINTED SIDE VIEW —

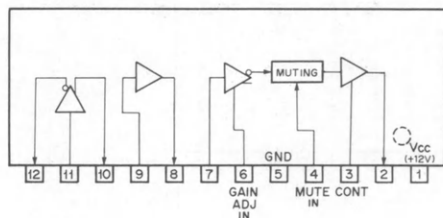


BX1249L (ROHM)  
VIDEO PHASE EQUALIZER  
— PRINTED SIDE VIEW —

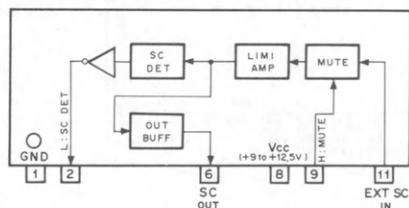




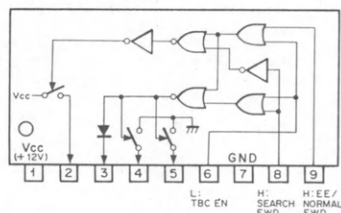
**BX1250L (ROHM)**  
CHROMA OUTPUT AMPLIFIER  
— REAR VIEW —



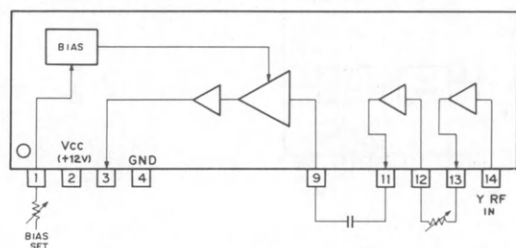
**BX1251L (ROHM)**  
EXTERNAL SUBCARRIER AMPLIFIER  
— PRINTED SIDE VIEW —



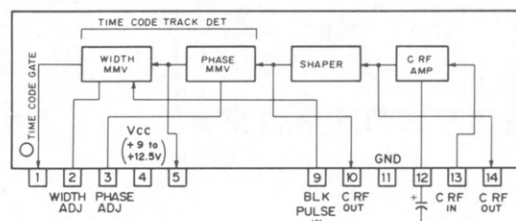
**BX1252AL (ROHM)**  
TBC SEARCH/STILL VCO SHIFT SWITCH  
— PRINTED SIDE VIEW —



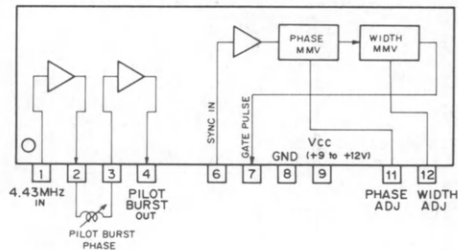
**BX1257L (ROHM)**  
Y-RF SIDE BAND EQUALIZER  
— PRINTED SIDE VIEW —



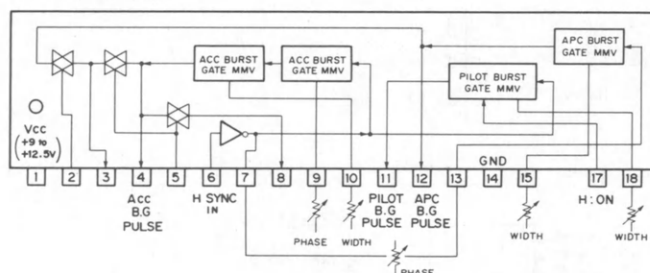
**BX1258L (ROHM)**  
TIME CODE MUTE GENERATOR  
— PRINTED SIDE VIEW —



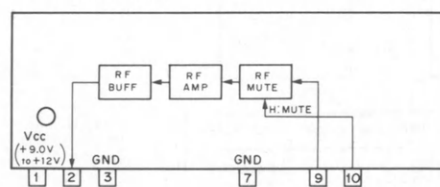
**BX1262L (ROHM)**  
PILOT BURST INSERTER  
— PRINTED SIDE VIEW —



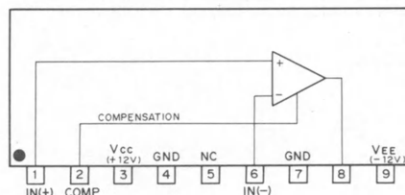
**BX1264L (ROHM)**  
ACC/APC BURST GATE PULSE GENERATOR  
— PRINTED SIDE VIEW —



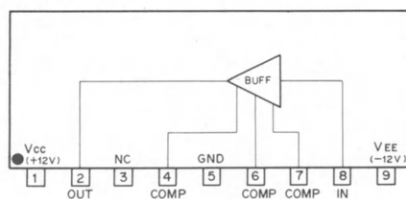
**BX1265L (ROHM)**  
VIDEO HEAD AMPLIFIER/MUTING  
— PRINTED SIDE VIEW —

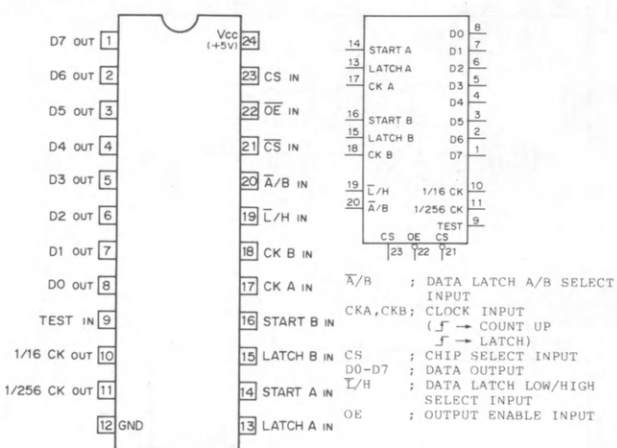
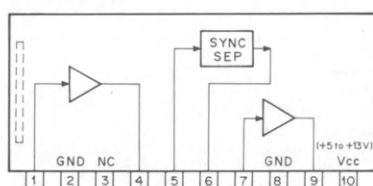
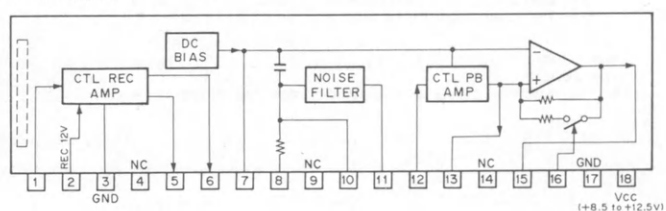
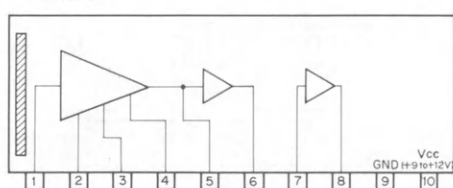
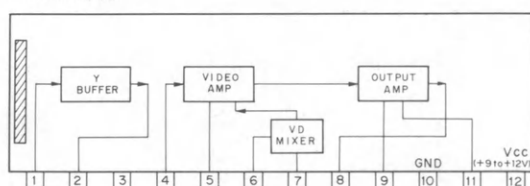
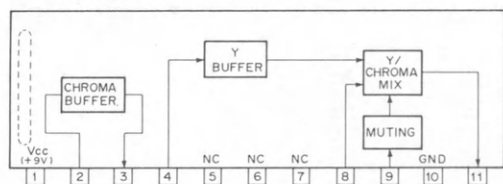


**BX365AL (ROHM)**  
VIDEO AMPLIFIER  
— SIDE VIEW —



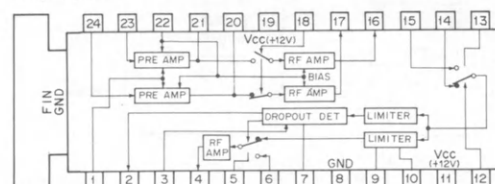
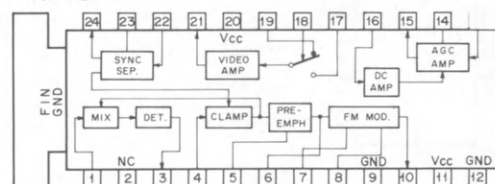
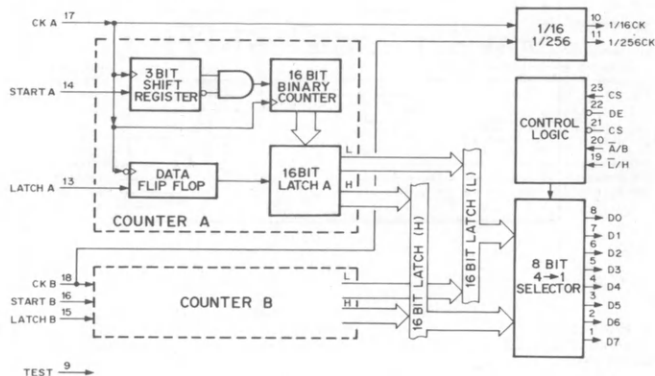
**BX366AL (ROHM)**  
VIDEO BUFFER  
— SIDE VIEW —

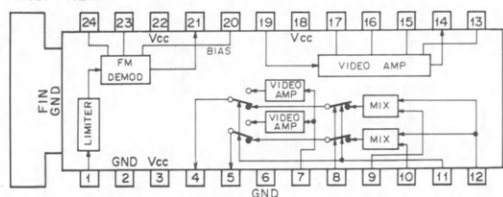
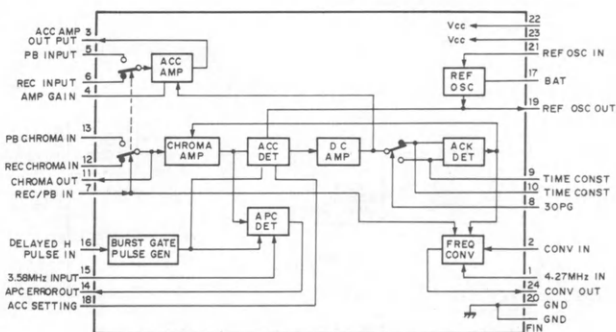
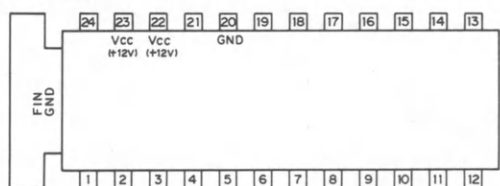
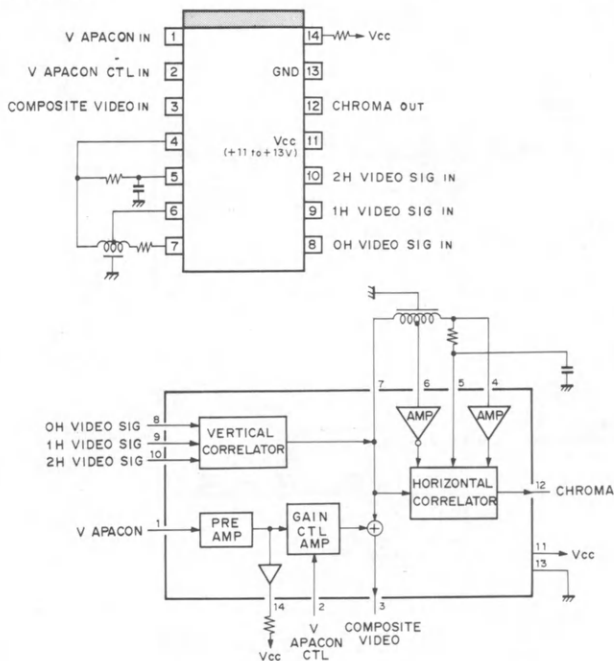
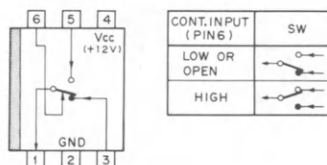
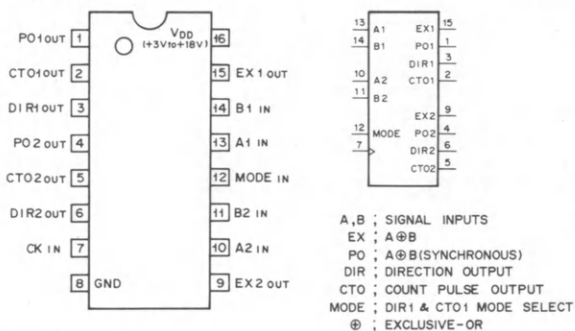




| MODE SELECT |    |    |     |     |  | OUTPUT            |
|-------------|----|----|-----|-----|--|-------------------|
| INPUT       |    |    |     |     |  |                   |
| CS          | CS | OE | A/B | L/H |  | DO-D7             |
| 0           | X  | X  | X   | X   |  | HI-Z              |
| 1           | 0  | 0  | 0   | 0   |  | LATCH A LOW BYTE  |
| 1           | 0  | 0  | 0   | 1   |  | LATCH A HIGH BYTE |
| 1           | 0  | 0  | 1   | 0   |  | LATCH B LOW BYTE  |
| 1           | 0  | 0  | 1   | 1   |  | LATCH B HIGH BYTE |
| X           | 1  | X  | X   | X   |  |                   |
| X           | X  | X  | X   | X   |  | HI-Z              |

```
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE
```

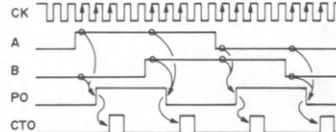


CX135 (SONY)  
— TOP VIEW —CX188  
CHROMINANCE SIGNAL PROCESSOR  
— TOP VIEW —CX22013 (SONY)  
DYNAMIC COMB FILTER  
— TOP VIEW —CX20060 (SONY)  
ANALOG SWITCH  
— TOP VIEW —CX23028 (SONY)  
C-MOS SYNCHRONOUS ROTATIONAL DIRECTION DETECTOR  
— TOP VIEW —

MODE="1"

| DIRECTION OUTPUT "DIR" |     |
|------------------------|-----|
| INPUTS                 | DIR |
| A < B                  | 1   |
| B < A                  | 0   |

TIMING CHART "CTO"



MODE="0"

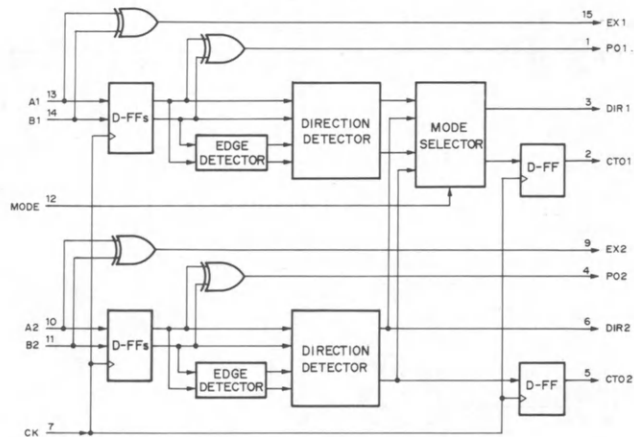
DIRECTION OUTPUT "DIR"

| INPUTS  |         | DIR 1 | DIR 2 |
|---------|---------|-------|-------|
| CH1     | CH2     |       |       |
| A1 < B1 | A2 < B2 | 1     |       |
| B1 < A1 | A2 < B2 | 0     |       |
| A1 < A2 | B2 < A2 |       | 1     |
| B1 < A1 | B2 < A2 |       | 0     |

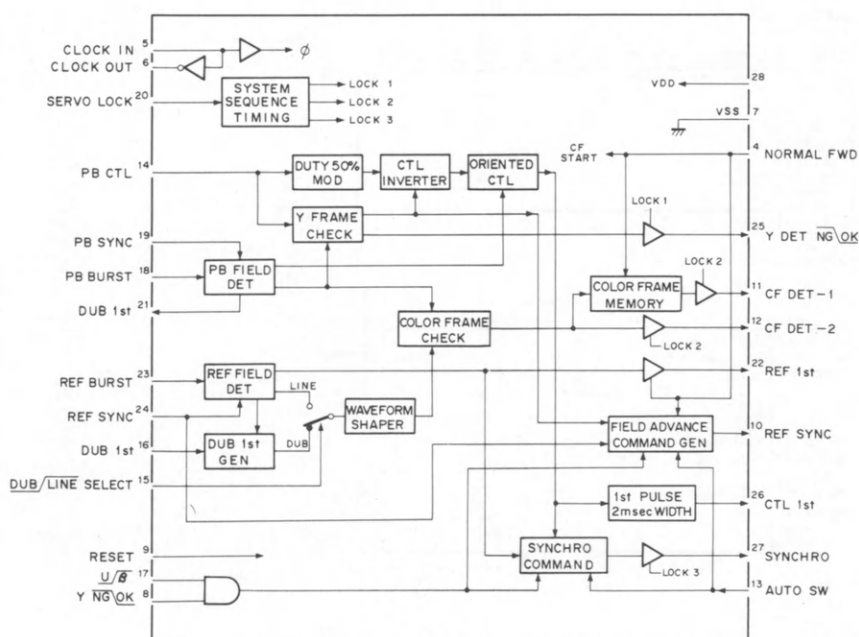
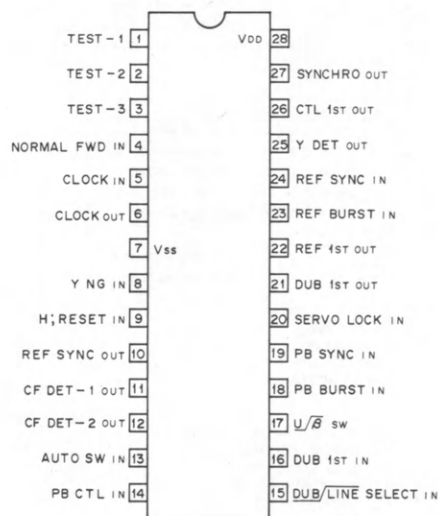
CTO 1 ; CTO1 with MODE "0" = CTO1 with MODE "1" + CTO 2  
 CTO 2 ; THE SAME FUNCTION OF MODE "1"

1 ; HIGH LEVEL  
 0 ; LOW LEVEL

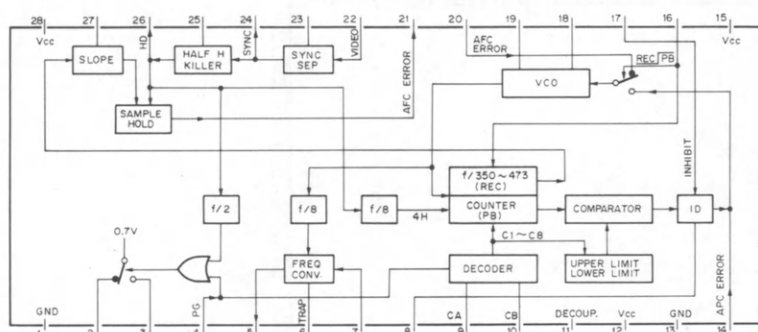
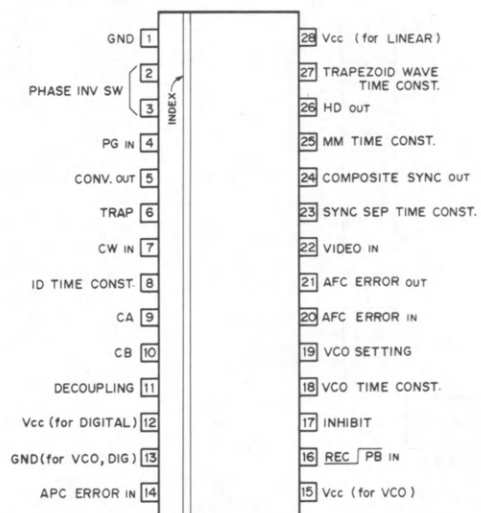
A &lt; B ; THE PHASE OF SIGNAL A IS IN ADVANCE FOR THE PHASE OF B.



CX7928 (SONY)  
C-MOS COLOR FRAMING CONTROL (PAL/SECAM)  
—TOP VIEW—



CX859 (SONY)  
—TOP VIEW—



DECODER TRUTH TABLE

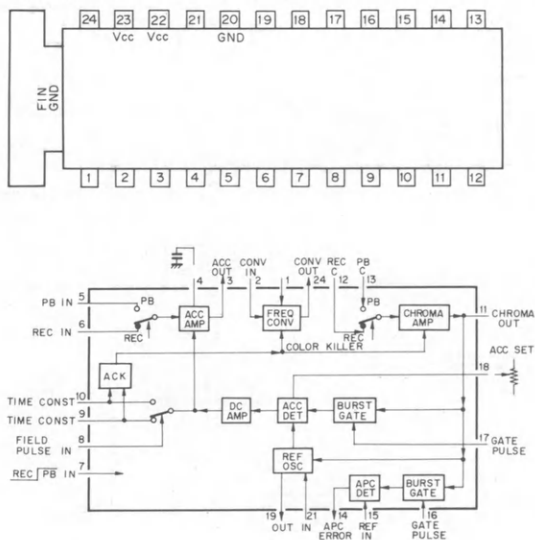
| CB   | CA | LOW | OPEN | HIGH |
|------|----|-----|------|------|
| LOW  | C1 | C7  | —    | —    |
| OPEN | C4 | C5  | C6   | —    |
| HIGH | —  | *C2 | C3   | C8   |

\* PG: L --- C2  
PG: H --- C3

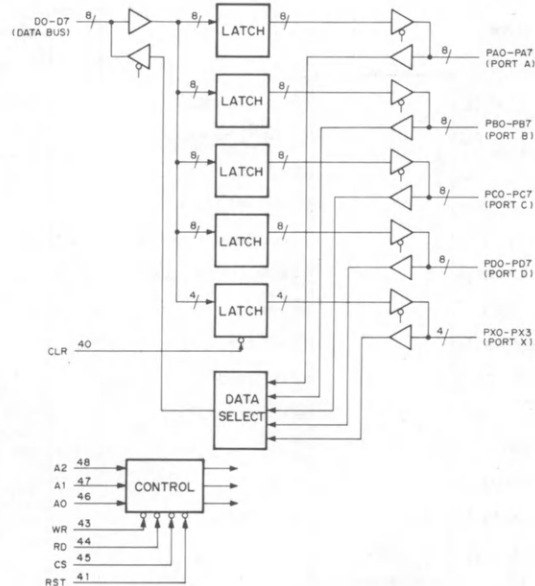
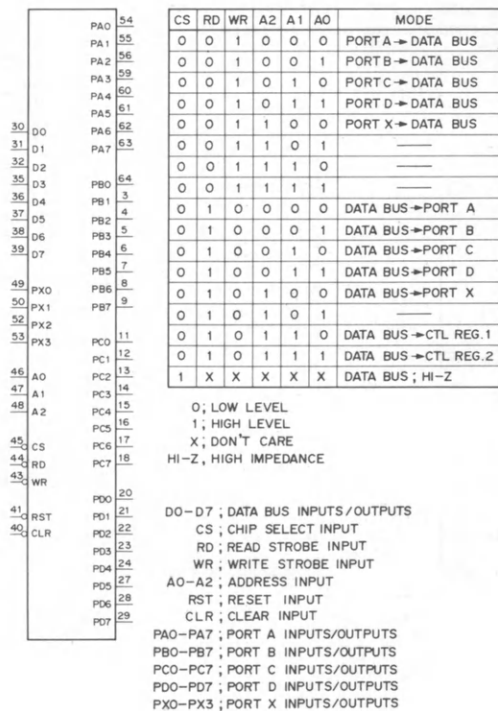
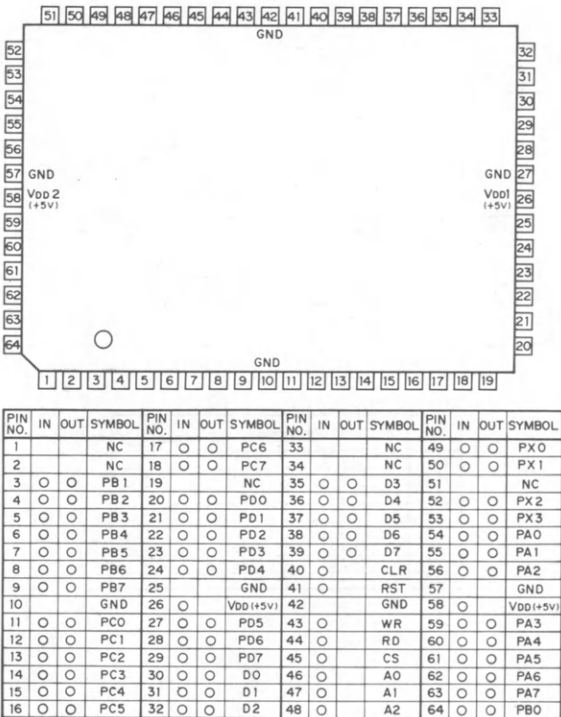
AFC/APC PRESET DATA

|    | AFC COUNT DOWN | APC ID COUNT |            |
|----|----------------|--------------|------------|
|    |                | UPPER LIM.   | LOWER LIM. |
| C1 | f/473          | 105          | 95         |
| C2 | f/351          | 129          | 119        |
| C3 | f/353          | 137          | 127        |
| C4 | f/351          | 118          | 104        |
| C5 | f/351          | 131          | 117        |
| C6 | f/351          | 144          | 130        |
| C7 | f/350          | 136          | 104        |
| C8 | —              | 125          | 115        |

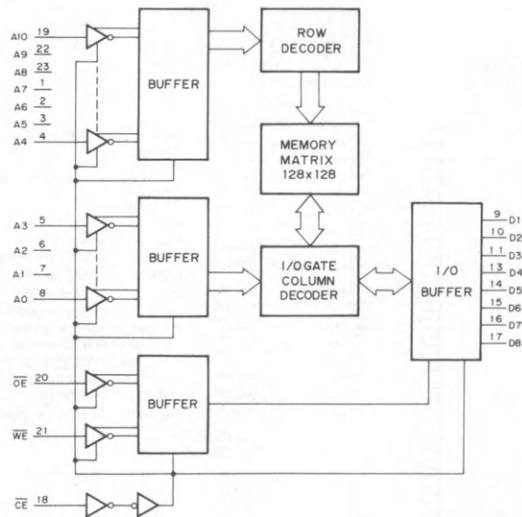
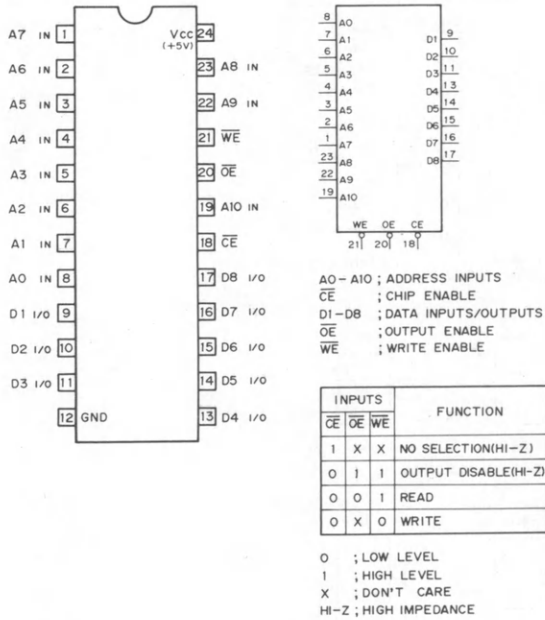
CX872 (SONY)  
— TOP VIEW —



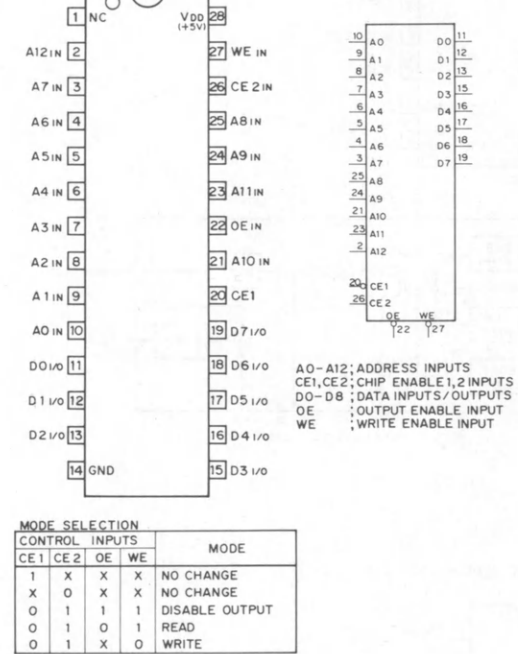
CXD1095Q (SONY) FLAT PACKAGE  
C-MOS I/O PORT EXPANDER  
— TOP VIEW —



CXK5816PN-10 (SONY) (ACCESS TIME=100nS)  
 CXK5816PN-10L (SONY) (ACCESS TIME=100nS)  
 CXK5816PN-12 (SONY) (ACCESS TIME=120nS)  
 CXK5816PN-12L (SONY) (ACCESS TIME=120nS)  
 CXK5816PN-15 (SONY) (ACCESS TIME=150nS)  
 CXK5816PN-15L (SONY) (ACCESS TIME=150nS)  
 C-MOS 16384-BIT (2048x8) STATIC RAM  
 — TOP VIEW —



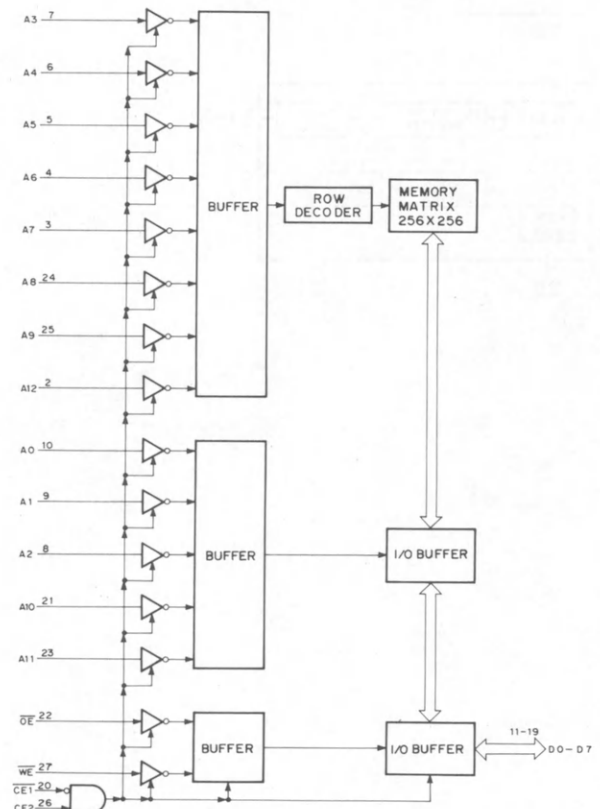
CXK5864PN-10 (SONY) (ACCESS TIME=100nS)  
 CXK5864PN-10L (SONY) (ACCESS TIME=100nS)  
 CXK5864PN-12 (SONY) (ACCESS TIME=120nS)  
 CXK5864PN-12L (SONY) (ACCESS TIME=120nS)  
 CXK5864PN-15 (SONY) (ACCESS TIME = 150 nS)  
 CXK5864PN-15L (SONY) (ACCESS TIME = 150 nS)  
 C-MOS 64K (8Kx8-BIT) STATIC RAM  
 — TOP VIEW —



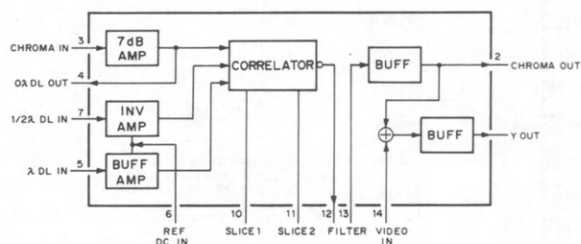
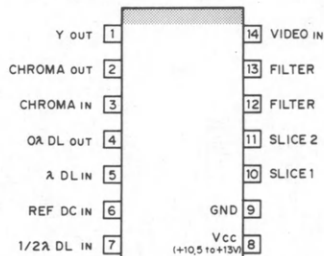
MODE SELECTION

| CONTROL | CE1 | CE2 | OE | WE | MODE           |
|---------|-----|-----|----|----|----------------|
| 1       | X   | X   | X  | X  | NO CHANGE      |
| X       | 0   | X   | X  | X  | NO CHANGE      |
| 0       | 1   | 1   | 1  | 1  | DISABLE OUTPUT |
| 0       | 1   | 0   | 1  | 1  | READ           |
| 0       | 1   | X   | 0  | 1  | WRITE          |

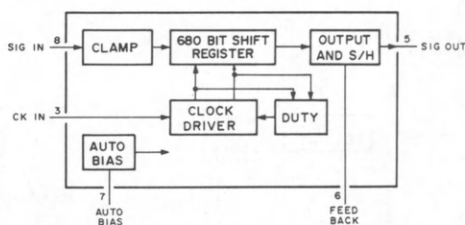
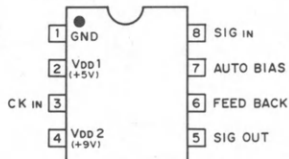
0 : LOW LEVEL  
 1 : HIGH LEVEL  
 X : DON'T CARE



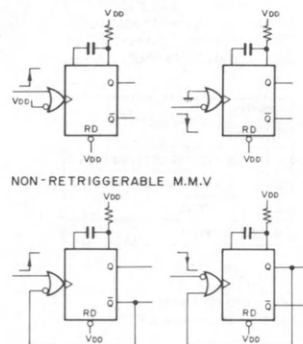
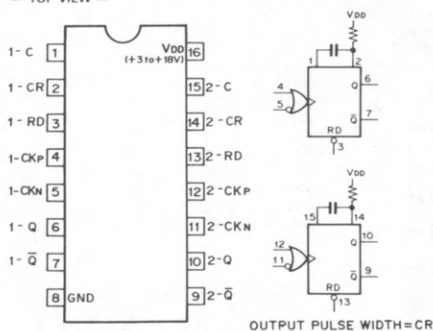
CXA1020P (SONY)  
CHROMA CROSS-COLOR NOISE REDUCER/EDGE COMPENSATOR  
— TOP VIEW —



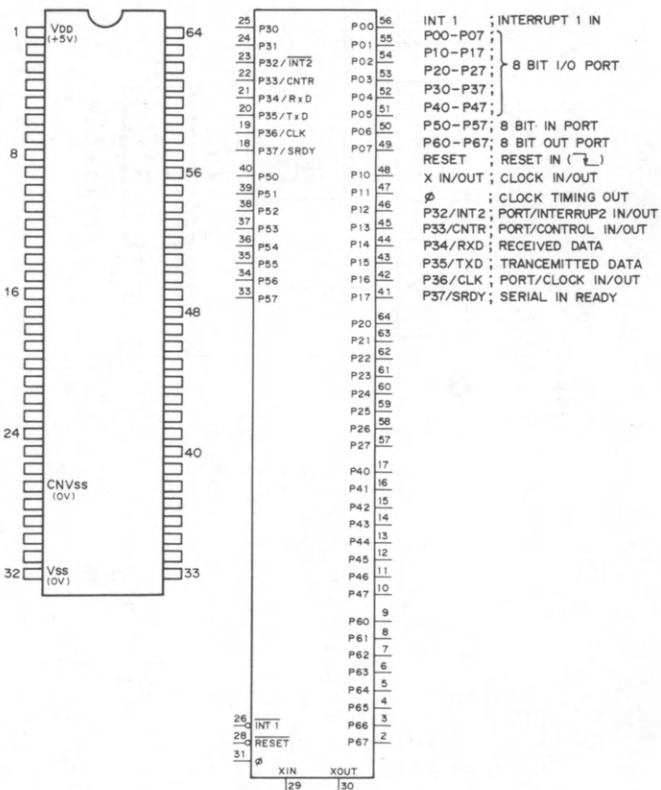
CXL5001P (SONY)  
C-MOS CCD FOR NTSC 1H DELAY LINE  
— TOP VIEW —

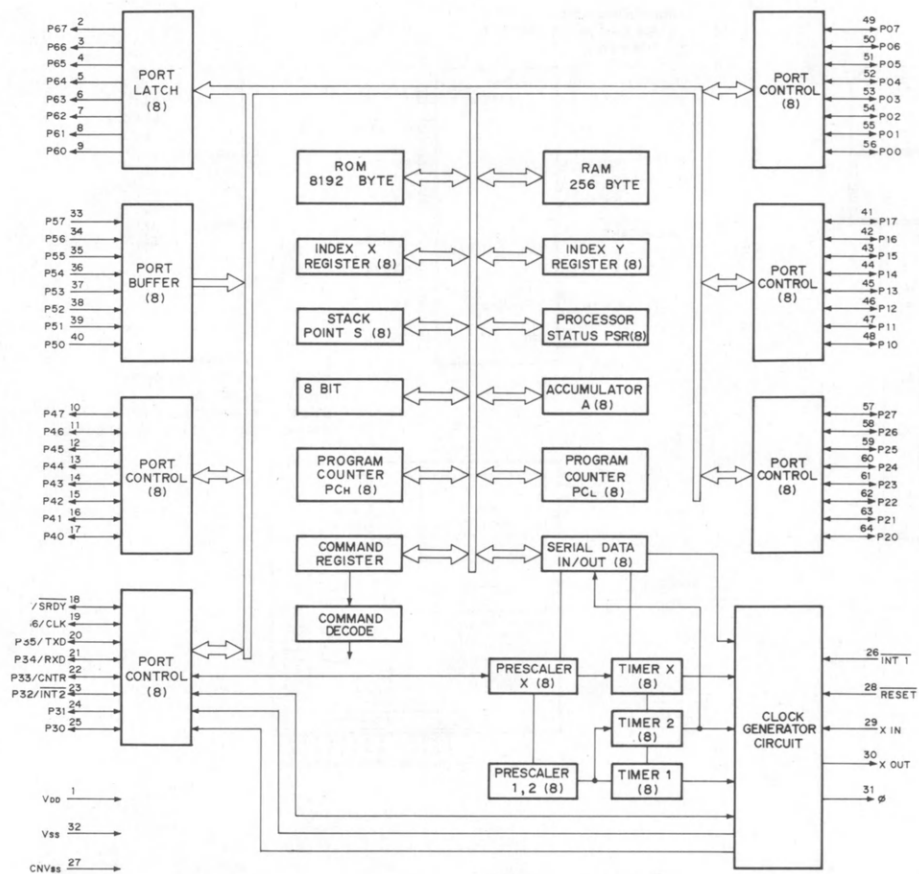


HD14538BP (HITACHI)  
TC4538BP (TOSHIBA)  
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE  
MONOSTABLE MULTIVIBRATOR  
— TOP VIEW —

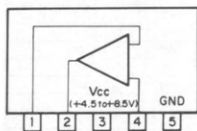


M50747H-XXXSP  
C-MOS PROCESS 8-BIT ONE CHIP MICROCOMPUTER  
— TOP VIEW —

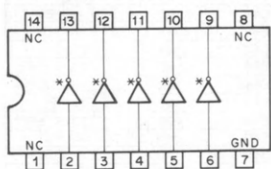




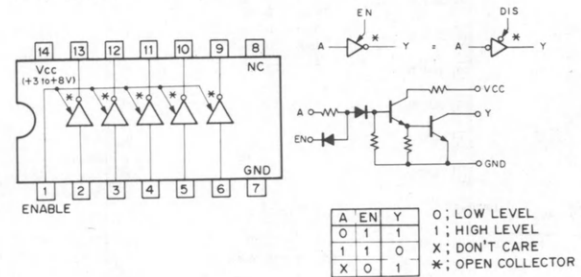
M5215L (MITSUBISHI)  
FM IF AMPLIFIER  
— REAR VIEW —



M54516P (MITSUBISHI)  
INVERTER WITH OPEN-COLLECTOR  
(DARLINGTON-CONNECTED TRANSISTOR ARRAY)  
— TOP VIEW —

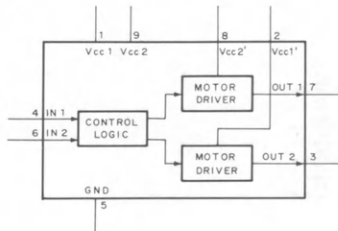
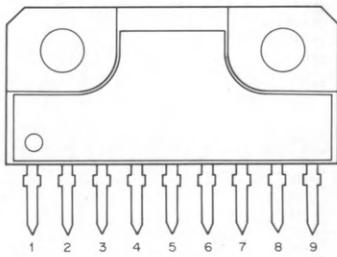


M54529AP (MITSUBISHI)  
TRANSISTOR ARRAY  
— TOP VIEW —





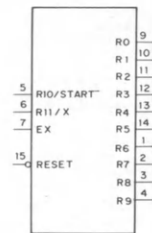
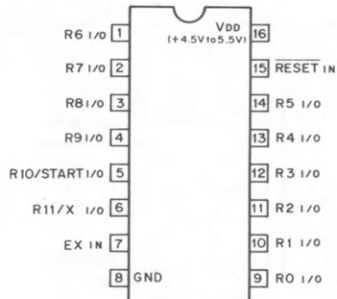
M54543L (MITSUBISHI)  
BI-DIRECTIONAL MOTOR DRIVER  
— SIDE VIEW —



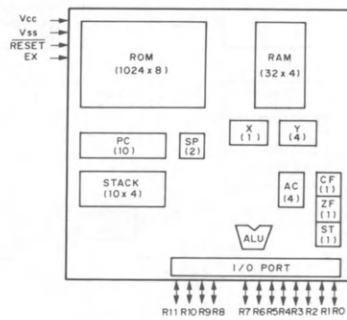
| IN  | OUT | MODE             |
|-----|-----|------------------|
| 1 2 | 1 2 |                  |
| 0 0 | 2 2 | NO OPERATION     |
| 1 0 | 1 0 | ROTATION         |
| 0 1 | 0 1 | REVERSE ROTATION |
| 1 1 | 0 0 | BRAKE            |

0: LOW LEVEL  
1: HIGH LEVEL  
2: HIGH IMPEDANCE

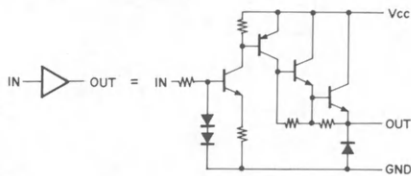
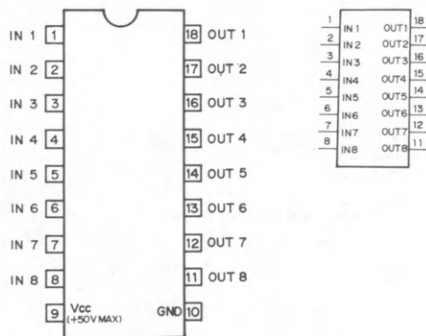
MB88201H-539N (FUJITSU)  
C-MOS 4 BIT MICROCOMPUTER  
— TOP VIEW —



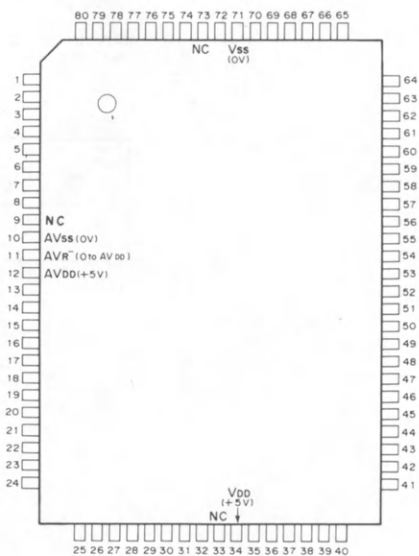
EX : EXTERNAL X'TAL IN  
R0-R11 : I/O PORT(R) IN/OUT  
RESET : RESET IN  
START : STANDBY RELEASE IN  
R11/X : EXT CLOCK IN/INT CLOCK OUT



M54562P (MITSUBISHI)  
SOURCE TYPE DARLINGTON TRANSISTOR ARRAY  
— TOP VIEW —

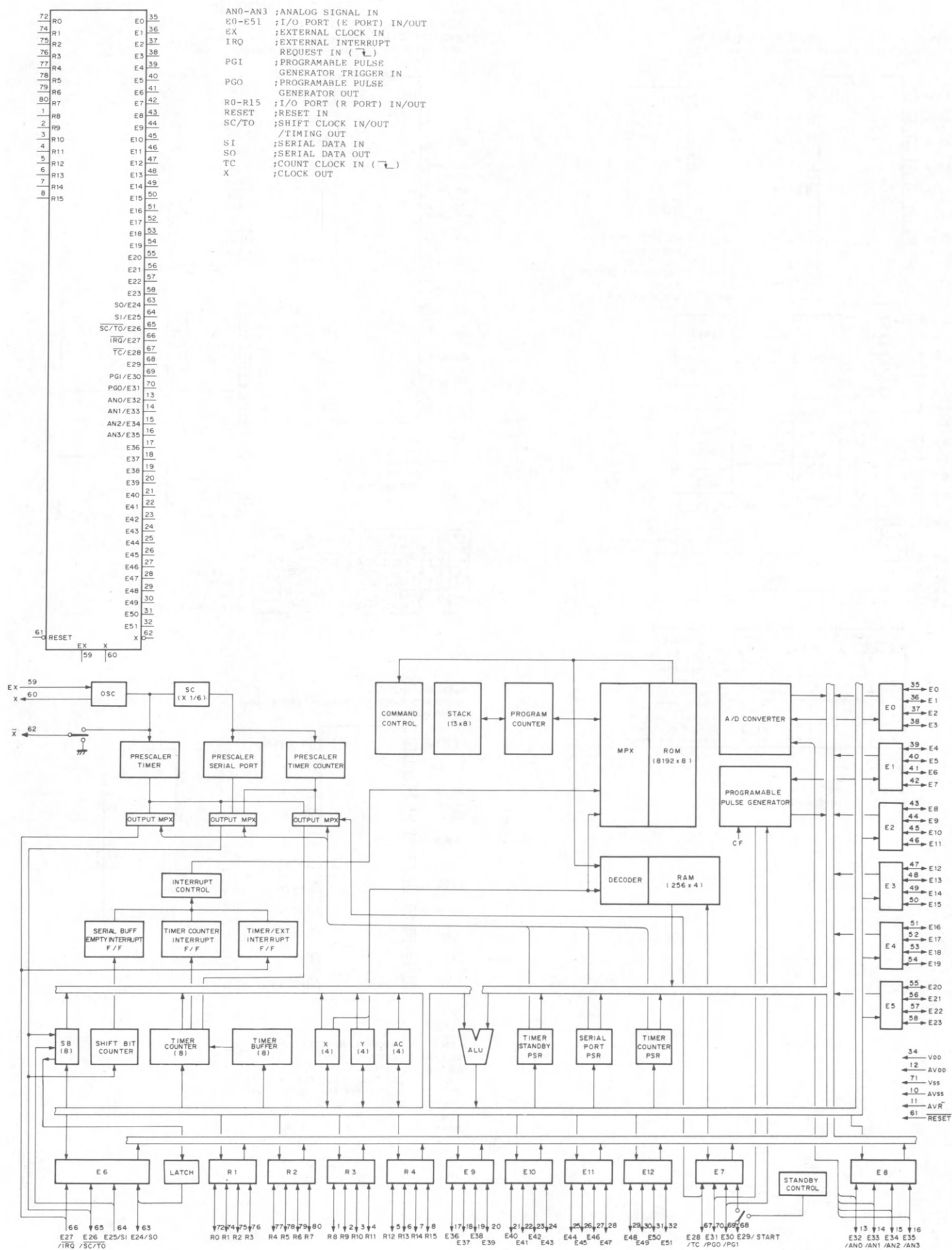


MB88551-H (FUJITSU) FLAT PACKAGE  
C-MOS 4 BIT ONE-CHIP MICROPROCESSOR  
— TOP VIEW —

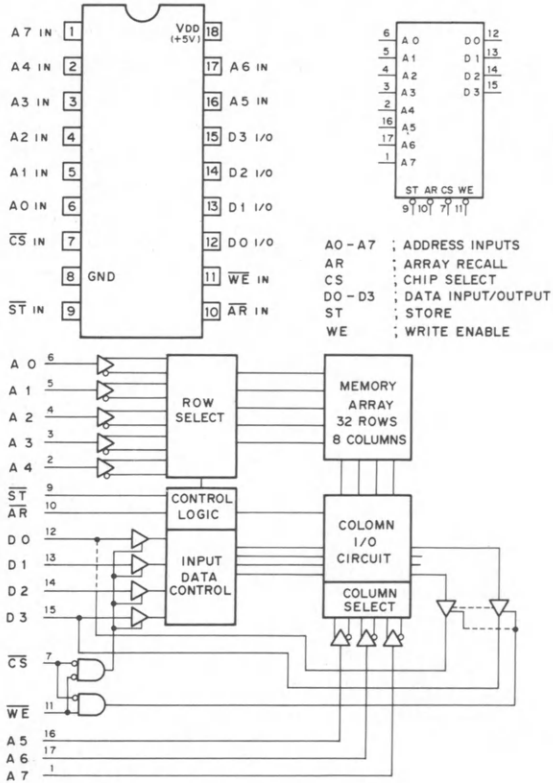


| PN | IN | OUT | SYMBOL  | PN | IN | OUT | SYMBOL     |
|----|----|-----|---------|----|----|-----|------------|
| 1  | ○  | ○   | R8      | 41 | ○  | ○   | E6         |
| 2  | ○  | ○   | R9      | 42 | ○  | ○   | E7         |
| 3  | ○  | ○   | R10     | 43 | ○  | ○   | E8         |
| 4  | ○  | ○   | R11     | 44 | ○  | ○   | E9         |
| 5  | ○  | ○   | R12     | 45 | ○  | ○   | E10        |
| 6  | ○  | ○   | R13     | 46 | ○  | ○   | E11        |
| 7  | ○  | ○   | R14     | 47 | ○  | ○   | E12        |
| 8  | ○  | ○   | R15     | 48 | ○  | ○   | E13        |
| 9  | —  | —   | —       | 49 | ○  | ○   | E14        |
| 10 | —  | —   | —       | 50 | ○  | ○   | E15        |
| 11 | —  | —   | —       | 51 | ○  | ○   | E16        |
| 12 | —  | —   | —       | 52 | ○  | ○   | E17        |
| 13 | ○  | ○   | E32/AN0 | 53 | ○  | ○   | E18        |
| 14 | ○  | ○   | E33/AN1 | 54 | ○  | ○   | E19        |
| 15 | ○  | ○   | E34/AN2 | 55 | ○  | ○   | E20        |
| 16 | ○  | ○   | E35/AN3 | 56 | ○  | ○   | E21        |
| 17 | ○  | ○   | E36     | 57 | ○  | ○   | E22        |
| 18 | ○  | ○   | E37     | 58 | ○  | ○   | E23        |
| 19 | ○  | ○   | E38     | 59 | ○  | ○   | EX         |
| 20 | ○  | ○   | E39     | 60 | ○  | ○   | X          |
| 21 | ○  | ○   | E40     | 61 | ○  | ○   | RESET      |
| 22 | ○  | ○   | E41     | 62 | ○  | ○   | X/(OPEN)*  |
| 23 | ○  | ○   | E42     | 63 | ○  | ○   | E24/S0     |
| 24 | ○  | ○   | E43     | 64 | ○  | ○   | E25/S1     |
| 25 | ○  | ○   | E44     | 65 | ○  | ○   | E26/SC/T0  |
| 26 | ○  | ○   | E45     | 66 | ○  | ○   | E27/IRQ    |
| 27 | ○  | ○   | E46     | 67 | ○  | ○   | E28/TC     |
| 28 | ○  | ○   | E47     | 68 | ○  | ○   | E29/START* |
| 29 | ○  | ○   | E48     | 69 | ○  | ○   | E30/PGI    |
| 30 | ○  | ○   | E49     | 70 | ○  | ○   | E31/PGO    |
| 31 | ○  | ○   | E50     | 71 | ○  | ○   | VSS        |
| 32 | ○  | ○   | E51     | 72 | ○  | ○   | R0         |
| 33 | —  | —   | —       | 73 | —  | —   | —          |
| 34 | —  | —   | —       | 74 | ○  | ○   | R1         |
| 35 | ○  | ○   | E0      | 75 | ○  | ○   | R2         |
| 36 | ○  | ○   | E1      | 76 | ○  | ○   | R3         |
| 37 | ○  | ○   | E2      | 77 | ○  | ○   | R4         |
| 38 | ○  | ○   | E3      | 78 | ○  | ○   | R5         |
| 39 | ○  | ○   | E4      | 79 | ○  | ○   | R6         |
| 40 | ○  | ○   | E5      | 80 | ○  | ○   | R7         |

\* MASK OPTION



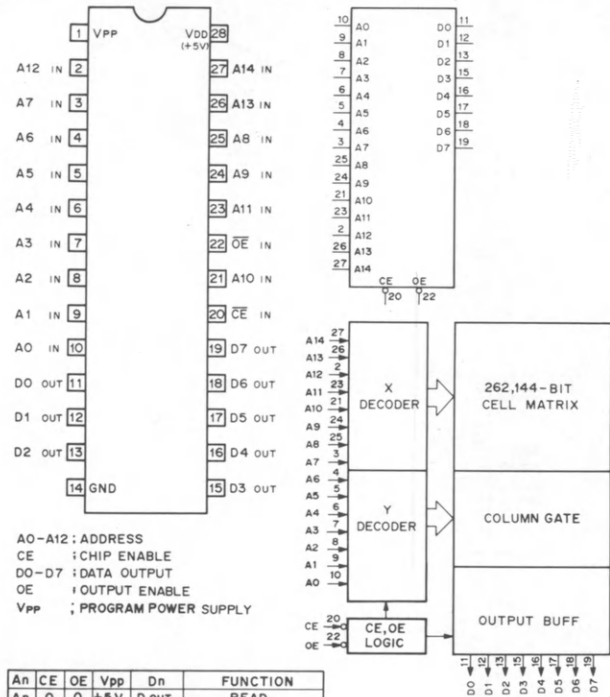
MBM2212-25P (FUJITSU) (ACCESS TIME = 250ns)  
N-MOS 1024 (256x4)-BIT NONVOLATILE STATIC RAM  
— TOP VIEW —



| INPUTS |    |    |    | I/O          |                     | MODE |
|--------|----|----|----|--------------|---------------------|------|
| CS     | WE | AR | ST |              |                     |      |
| 1      | X  | 1  | 1  | HI-Z         | NOT SELECTED        |      |
| 0      | 1  | 1  | 1  | OUTPUT DATA  | RAM READ            |      |
| 0      | 0  | 1  | 1  | INPUT DATA 1 | RAM WRITE "1"       |      |
| 0      | 0  | 1  | 1  | INPUT DATA 0 | RAM WRITE "0"       |      |
| X      | 1  | 0  | 1  | HI-Z         | ARRAY RECALL        |      |
| 1      | X  | 0  | 1  | HI-Z         | ARRAY RECALL        |      |
| X      | 1  | 1  | 0  | HI-Z         | NONVOLATILE STORING |      |
| 1      | X  | 1  | 0  | HI-Z         | NONVOLATILE STORING |      |

0 : LOW LEVEL  
1 : HIGH LEVEL  
X : DON'T CARE  
HI-Z : HIGH IMPEDANCE

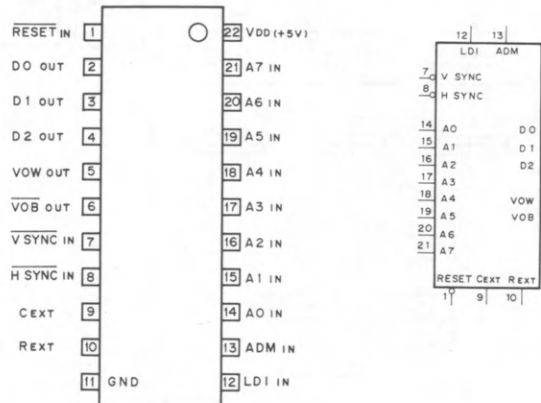
MBM27C256-25 (FUJITSU) (ACCESS TIME = 250 ns)  
C-MOS 256K (32Kx8) ERASABLE PROM WITH 3-STATE OUTPUTS  
— TOP VIEW —



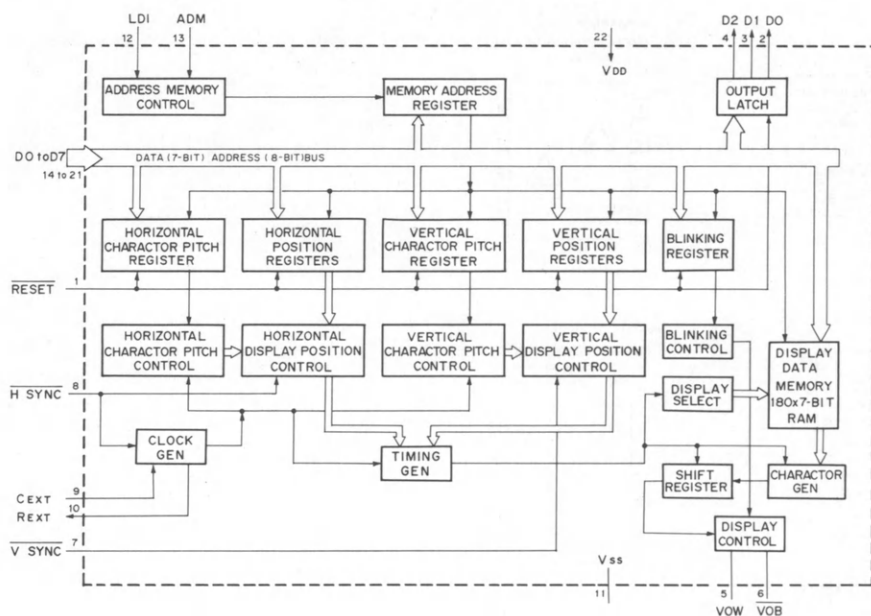
| An | CE | OE | Vpp  | Dn    | FUNCTION       |
|----|----|----|------|-------|----------------|
| An | 0  | 0  | +5V  | D OUT | READ           |
| An | 0  | 1  | +5V  | HI-Z  | OUTPUT DISABLE |
| X  | 1  | X  | +5V  | HI-Z  | STANDBY        |
| An | 0  | 1  | +21V | D IN  | PGM            |
| An | 0  | 0  | +21V | D OUT | PGM VERIFY     |
| X  | 1  | X  | +21V | HI-Z  | PGM INH        |

0 : LOW LEVEL  
1 : HIGH LEVEL  
X : DON'T CARE  
HI-Z : HIGH IMPEDANCE

MB88303 (FUJITSU)  
N-MOS PROGRAMMABLE TV DISPLAY CONTROLLER  
— TOP VIEW —

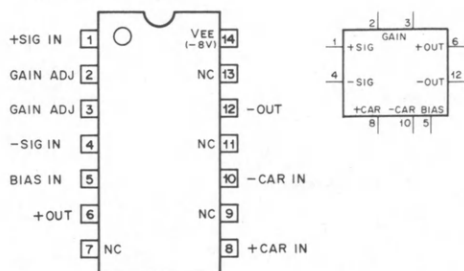


ADM : ADDRESS INCREMENT MODE  
A0 to A7 : ADDRESS INPUT  
DO to D2 : DATA OUTPUT  
CEXT : EXT CAPACITOR FOR OSC  
LD1 : LOAD DATA AND INSTRUCTION  
VOB : VIDEO BLACK OUT  
VOW : VIDEO WHITE OUT  
REXT : EXT RESISTOR FOR OSC

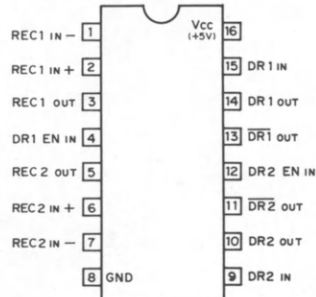


| b3-b0 | 0000 | 0001 | 0010 | 0011 | 0100 | 0101 | 0110 | 0111 | 1000 | 1001 | 1010 | 1011 | 1100 | 1101 | 1110 | 1111  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| b5-b4 | 00   | A    | B    | C    | D    | E    | F    | G    | H    | I    | J    | K    | L    | M    | .    | BLANK |
| 01    | N    | O    | P    | Q    | R    | S    | T    | U    | V    | W    | X    | Y    | Z    | :    | ■    | (     |
| 10    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | ?    | !    | '    | .    | BACK | )     |
| 11    | ↑    | ↓    | ←    | →    | +    | -    | *    | /    | =    | &    |      |      |      |      |      |       |

MC1496P (MOTOROLA)  
BALANCED MODULATOR/DEMODULATOR  
— TOP VIEW —



MC34051P (MOTOROLA)  
RS-422 DRIVER/RECEIVER  
— TOP VIEW —

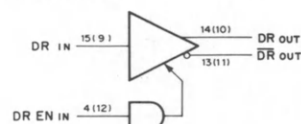


| DR EN | MODE    |
|-------|---------|
| 0     | DISABLE |
| 1     | ENABLE  |

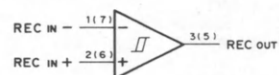
0 ; LOW LEVEL  
1 ; HIGH LEVEL

DR ; DRIVER  
DR EN ; DRIVER ENABLE  
REC ; RECEIVER

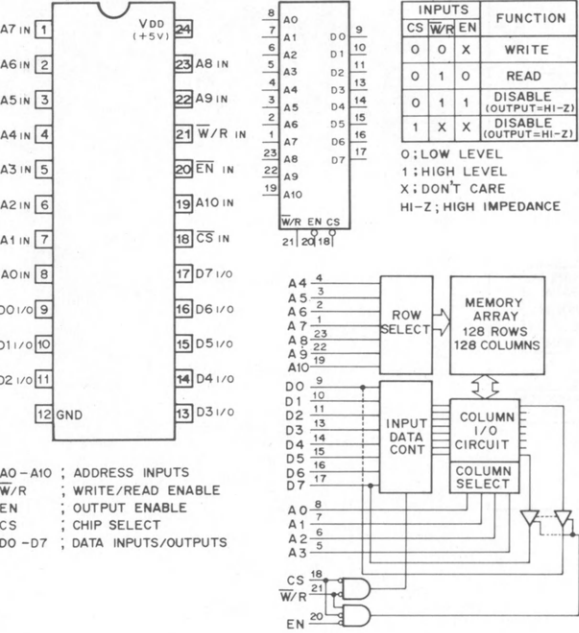
DRIVER CIRCUIT



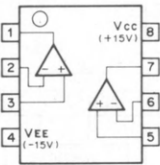
RECEIVER CIRCUIT



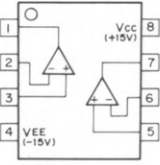
MSM5128-15RS (OKI) (ACCESS TIME = 150 nS)  
C-MOS 16384(2048x8)-BIT HIGH SPEED STATIC RAM  
— TOP VIEW —



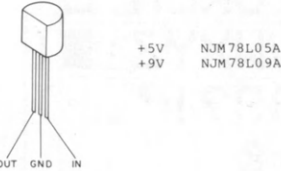
NJM4560D (JRC)  
OPERATIONAL AMPLIFIER  
— TOP VIEW —



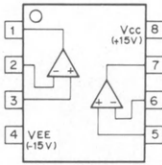
NJM4562D-D (JRC)  
OPERATIONAL AMPLIFIER  
— TOP VIEW —



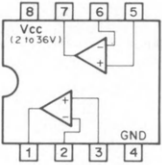
NJM78L05 (JRC)  
POSITIVE VOLTAGE REGULATOR (100mA)



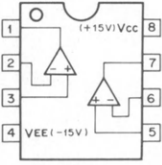
NJM2043D-D (JRC)  
OPERATIONAL AMPLIFIER  
— TOP VIEW —



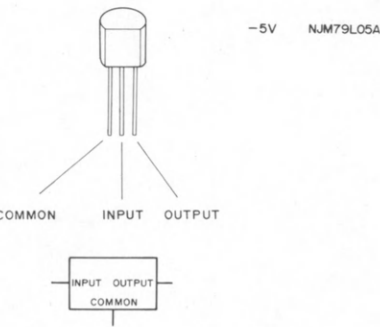
NJM2903D (JRC)  
VOLTAGE COMPARATOR  
— TOP VIEW —



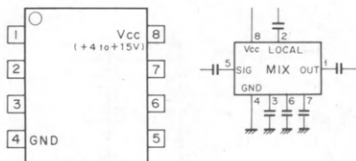
NJM4558D (JRC)  
uPC4558C (NEC)  
OPERATIONAL AMPLIFIER  
— TOP VIEW —



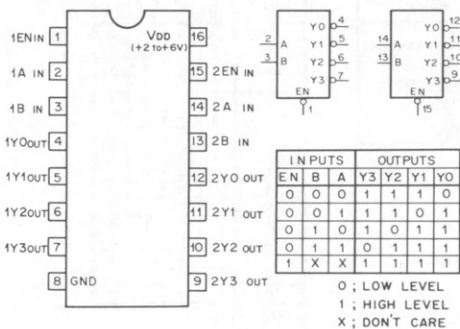
NJM79L05 (JRC)  
NEGATIVE VOLTAGE REGULATOR (100mA)  
— FRONT VIEW —



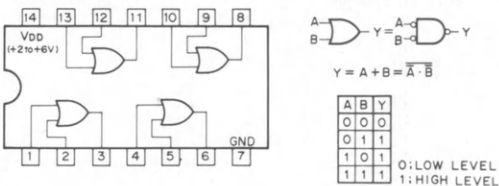
SN16913P (TI)  
SN16913P-A (TI)  
BALANCED MIXER  
— TOP VIEW —



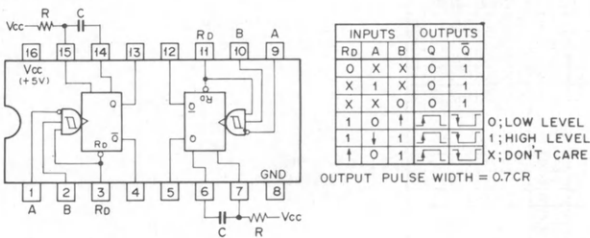
SN74HC139N (TI)  
TC74HC139P (TOSHIBA)  
C-MOS 1-OF-4 DECODER/DEMULTIPLEXER  
— TOP VIEW —



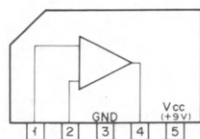
SN74HC32N (TI)  
C-MOS 2-INPUT OR GATE  
— TOP VIEW —



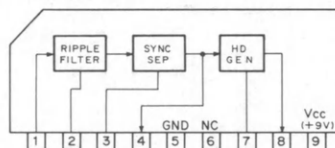
SN74LS221N (TI)  
TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT  
— TOP VIEW —



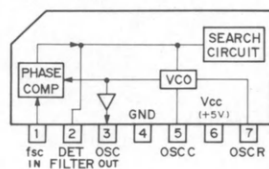
TA7060AP (TOSHIBA)  
LINEAR AMP  
— SIDE VIEW —



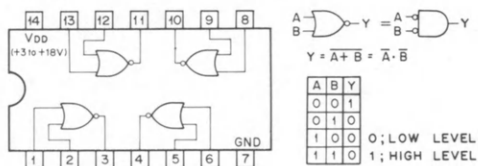
TA7357AP (TOSHIBA)  
SYNC SEPARATOR/HD PULSE GENERATOR  
— SIDE VIEW —



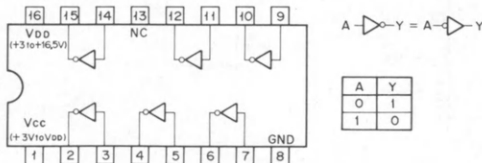
TA7374P (TOSHIBA)  
THREE TIMES OSCILLATOR  
— SIDE VIEW —



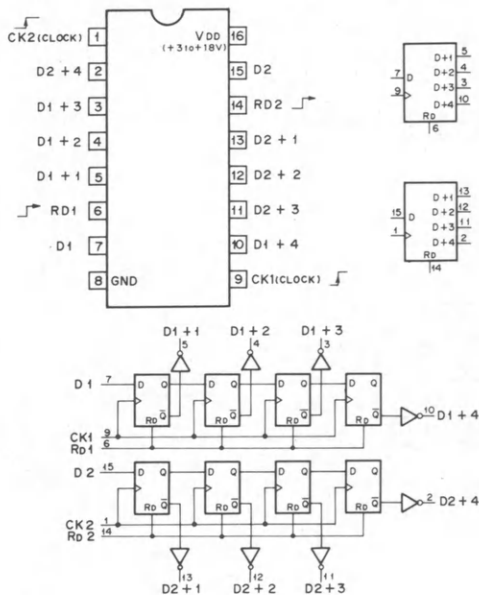
TC4001BP (TOSHIBA)  
C-MOS 2-INPUT NOR GATE  
— TOP VIEW —



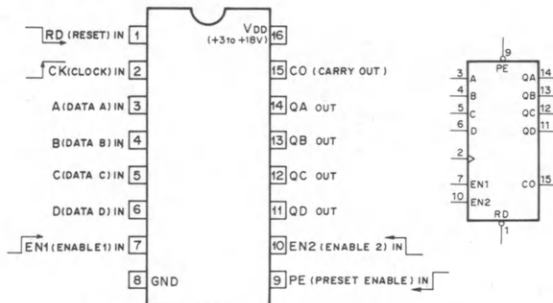
TC4009UBP (TOSHIBA)  
C-MOS INVERTING TYPE BUFFER/CONVERTER (TO TTL LEVEL)  
— TOP VIEW —



## TC4015BP (TOSHIBA)

C-MOS DUAL 4-STAGE STATIC SHIFT REGISTER WITH DIRECT RESET  
— TOP VIEW —

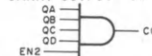
## TC40161BP (TOSHIBA)

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER WITH ASYNCHRONOUS RESET  
— TOP VIEW —

## MODE SELECTION

| CONTROL INPUTS |    |     |     | MODE                 |
|----------------|----|-----|-----|----------------------|
| RD             | PE | EN1 | EN2 |                      |
| 0              | X  | X   | X   | RESET (ASYNCHRONOUS) |
| 1              | 0  | X   | X   | PRESET (SYNCHRONOUS) |
| 1              | 1  | 0   | X   | NO COUNT             |
| 1              | 1  | X   | 0   | NO COUNT             |
| 1              | 1  | 1   | 1   | COUNT                |

## CARRY OUTPUT "CO"



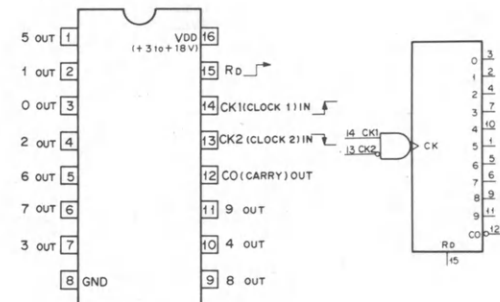
CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

## COUNT SEQUENCE

| COUNT | OUTPUTS |    |    |    |
|-------|---------|----|----|----|
|       | QD      | QC | QB | QA |
| 0     | 0       | 0  | 0  | 0  |
| 1     | 0       | 0  | 0  | 1  |
| 2     | 0       | 0  | 1  | 0  |
| 3     | 0       | 0  | 1  | 1  |
| 4     | 0       | 1  | 0  | 0  |
| 5     | 0       | 1  | 0  | 1  |
| 6     | 0       | 1  | 1  | 0  |
| 7     | 0       | 1  | 1  | 1  |
| 8     | 1       | 0  | 0  | 0  |
| 9     | 1       | 0  | 0  | 1  |
| 10    | 1       | 0  | 1  | 0  |
| 11    | 1       | 0  | 1  | 1  |
| 12    | 1       | 1  | 0  | 0  |
| 13    | 1       | 1  | 0  | 1  |
| 14    | 1       | 1  | 1  | 0  |
| 15    | 1       | 1  | 1  | 1  |

0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE

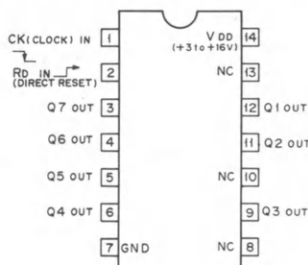
## TC4017BP (TOSHIBA)

C-MOS DECADE COUNTER/DIVIDER  
— TOP VIEW —

| COUNT    | INPUTS |     |     |     | OUTPUTS |   |   |   |   |   |   |   |   |   |
|----------|--------|-----|-----|-----|---------|---|---|---|---|---|---|---|---|---|
|          | RD     | CK1 | CK2 | CK3 | 9       | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0        | 1      | X   | 0   | 0   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 0        | 0      | 0   | 0   | 0   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 1        | 0      | 0   | 0   | 0   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 2        | 0      | 0   | 0   | 0   | 0       | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 3        | 0      | 0   | 0   | 0   | 0       | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 4        | 0      | 0   | 0   | 0   | 0       | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5        | 0      | 0   | 0   | 0   | 0       | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6        | 0      | 0   | 0   | 0   | 0       | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7        | 0      | 0   | 0   | 0   | 0       | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8        | 0      | 0   | 0   | 0   | 1       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9        | 0      | 0   | 0   | 1   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NO COUNT | 0      | 1   |     |     |         |   |   |   |   |   |   |   |   |   |
|          | 0      | 0   |     |     |         |   |   |   |   |   |   |   |   |   |

0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE

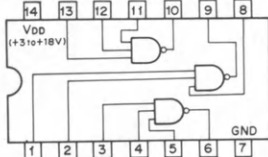
## TC4024BP (TOSHIBA)

C-MOS ASYNCHRONOUS 7-BIT BINARY COUNTER  
— TOP VIEW —

| COUNT | INPUTS |     |     |     | OUTPUTS |     |     |     |     |     |  |
|-------|--------|-----|-----|-----|---------|-----|-----|-----|-----|-----|--|
|       | CK     | Rd  | Q7  | Q6  | Q5      | Q4  | Q3  | Q2  | Q1  | Q0  |  |
| 0     | X      | 1   | 0   | 0   | 0       | 0   | 0   | 0   | 0   | 0   |  |
| 1     | 1      | 0   | 0   | 0   | 0       | 0   | 0   | 0   | 0   | 1   |  |
| 2     | 1      | 0   | 0   | 0   | 0       | 0   | 0   | 0   | 1   | 0   |  |
| 3     | 1      | 0   | 0   | 0   | 0       | 0   | 0   | 1   | 0   | 1   |  |
| 4     | 1      | 0   | 0   | 0   | 0       | 0   | 1   | 0   | 0   | 0   |  |
| ...   | ...    | ... | ... | ... | ...     | ... | ... | ... | ... | ... |  |
| 125   | 1      | 0   | 1   | 1   | 1       | 1   | 1   | 0   | 1   | 0   |  |
| 126   | 1      | 0   | 1   | 1   | 1       | 1   | 1   | 1   | 0   | 0   |  |
| 127   | 1      | 0   | 1   | 1   | 1       | 1   | 1   | 1   | 1   | 1   |  |
| ...   | ...    | ... | ... | ... | ...     | ... | ... | ... | ... | ... |  |
| ...   | 0      | 0   |     |     |         |     |     |     |     |     |  |
| ...   | 1      | 0   |     |     |         |     |     |     |     |     |  |

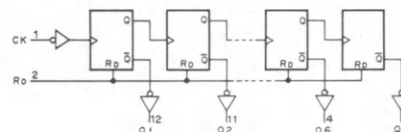
0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE

## TC4023BP (TOSHIBA)

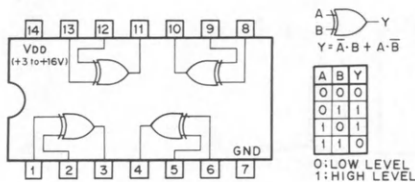
C-MOS 3-INPUT NAND GATE  
— TOP VIEW —

$$Y = A \cdot B \cdot C = \overline{\overline{A} + \overline{B} + \overline{C}}$$

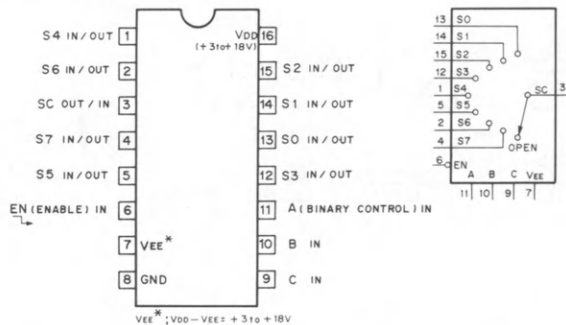
| A | B | C | Y |
|---|---|---|---|
| X | X | 0 | 1 |
| X | 0 | X | 1 |
| 0 | X | X | 1 |
| 0 | 0 | 0 | 1 |
| 1 | 1 | 1 | 0 |

0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE

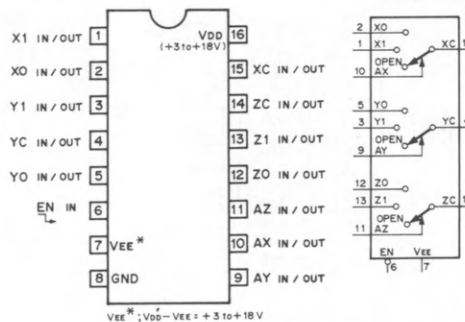
TC4030BP (TOSHIBA)  
TC4030BPHB (TOSHIBA)  
C-MOS EXCLUSIVE OR GATE  
— TOP VIEW —



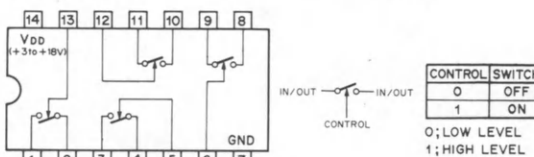
TC4051BP (TOSHIBA)  
C-MOS 8-CHANNEL MULTIPLEXER/DEMUTIPLEXER  
— TOP VIEW —



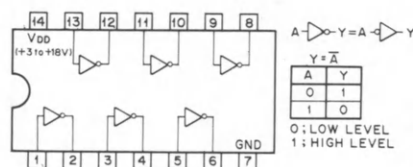
TC4053BP (TOSHIBA)  
TC4053BPHB (TOSHIBA)  
C-MOS 2-CHANNEL MULTIPLEXER/DEMUTIPLEXER  
— TOP VIEW —



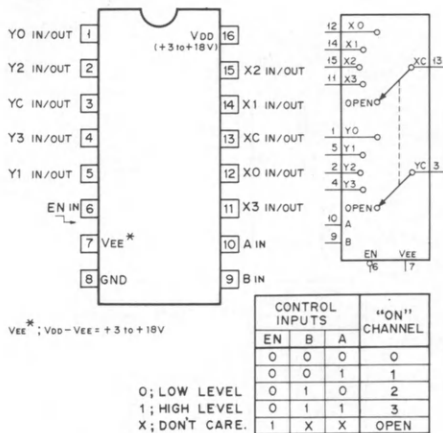
TC4066BFHB (TOSHIBA) FLAT PACKAGE  
TC4066BP (TOSHIBA)  
C-MOS BILATERAL ANALOG SWITCH  
— TOP VIEW —



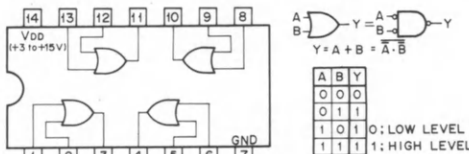
TC4069UBP (TOSHIBA)  
C-MOS INVERTER  
— TOP VIEW —



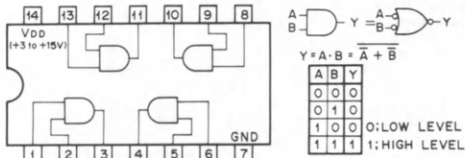
TC4052BP (TOSHIBA)  
TC4052BPHB (TOSHIBA)  
uPD4052BC (NEC)  
C-MOS 4-CHANNEL MULTIPLEXER/DEMUTIPLEXER  
— TOP VIEW —



TC4071BP (TOSHIBA)  
C-MOS 2-INPUT OR GATE  
— TOP VIEW —

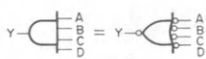
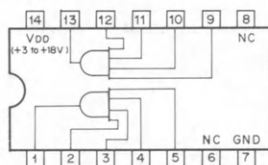


TC4081BP (TOSHIBA)  
C-MOS 2-INPUT AND GATE  
— TOP VIEW —





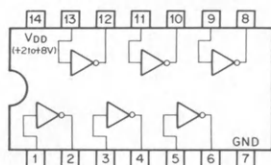
TC4082BP (TOSHIBA)  
C-MOS 4-INPUT AND GATE  
— TOP VIEW —



| D | C | B | A | Y |
|---|---|---|---|---|
| X | X | X | X | 0 |
| X | X | X | 0 | 0 |
| X | X | 0 | X | 0 |
| X | X | 0 | 0 | 0 |
| X | 0 | X | X | 0 |
| X | 0 | X | 0 | 0 |
| X | 0 | 0 | X | 0 |
| X | 0 | 0 | 0 | 0 |
| 0 | X | X | X | 0 |
| 0 | X | X | 0 | 0 |
| 0 | X | 0 | X | 0 |
| 0 | X | 0 | 0 | 0 |
| 0 | 0 | X | X | 0 |
| 0 | 0 | X | 0 | 0 |
| 0 | 0 | 0 | X | 0 |
| 0 | 0 | 0 | 0 | 0 |

0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE

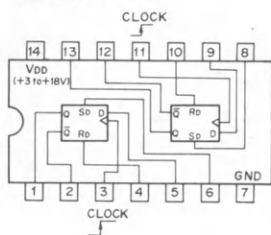
TC40H004P (TOSHIBA)  
C-MOS INVERTER  
— TOP VIEW —



| A | Y |
|---|---|
| 0 | 1 |
| 1 | 0 |

0; LOW LEVEL  
1; HIGH LEVEL

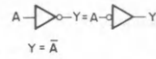
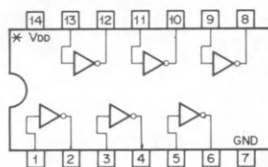
TC504013BP (TOSHIBA)  
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET  
— TOP VIEW —



| DIRECT R-S FLIP FLOP |     |   |   | D-TYPE FLIP FLOP |   |
|----------------------|-----|---|---|------------------|---|
| Set                  | Rst | D | Q | Ckn              | Q |
| 0                    | 0   | 0 | 0 | 0                | 0 |
| 0                    | 0   | 0 | 1 | 0                | 0 |
| 0                    | 1   | 0 | 0 | 0                | 0 |
| 0                    | 1   | 0 | 1 | 0                | 0 |
| 1                    | 0   | 0 | 0 | 1                | 1 |
| 1                    | 0   | 0 | 1 | 1                | 1 |

0; LOW LEVEL  
1; HIGH LEVEL

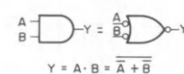
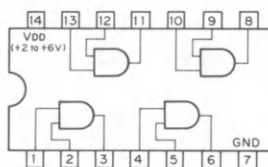
TC74HC04P (TOSHIBA)  
TC74HCU04P (TOSHIBA)  
C-MOS INVERTER  
— TOP VIEW —



| A | Y |
|---|---|
| 0 | 1 |
| 1 | 0 |

0; LOW LEVEL  
1; HIGH LEVEL

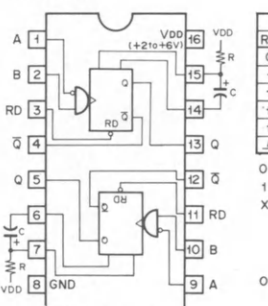
TC74HC08P (TOSHIBA)  
C-MOS 2-INPUT AND GATE  
— TOP VIEW —



| A | B | Y |
|---|---|---|
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

0; LOW LEVEL  
1; HIGH LEVEL

TC74HC123P (TOSHIBA)  
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR  
— TOP VIEW —

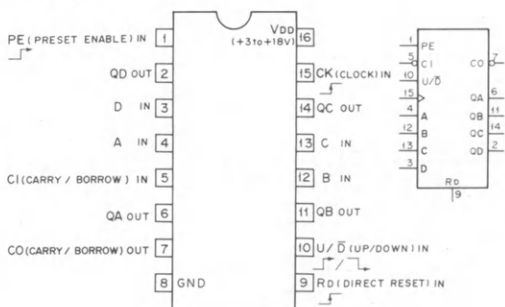


| INPUT |   |   |   | OUTPUT |   |   |   |
|-------|---|---|---|--------|---|---|---|
| RD    | A | B | Q | Q      | Q | Q | Q |
| 0     | X | X | 0 | 1      | 1 | 1 | 1 |
| 1     | 1 | X | 0 | 1      | 1 | 1 | 1 |
| 1     | X | 0 | 0 | 1      | 1 | 1 | 1 |
| 1     | 0 | 1 | 0 | 1      | 1 | 1 | 1 |
| 1     | 1 | 1 | 0 | 1      | 1 | 1 | 1 |

0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE

OUTPUT PULSE WIDTH = 0.46CR

TC4510BP (TOSHIBA)  
C-MOS PRESETTABLE BCD UP/DOWN COUNTER  
— TOP VIEW —



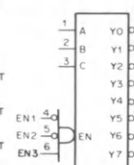
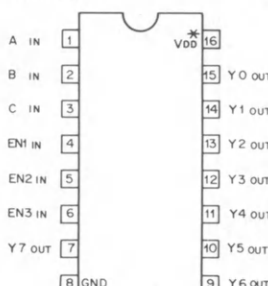
| INPUTS |    |    |    |     | OUTPUTS        |    |    |    |
|--------|----|----|----|-----|----------------|----|----|----|
| CK     | RD | PE | Ci | U/D | QD             | QC | QB | QA |
| X      | 1  | X  | X  | X   | 0              | 0  | 0  | 0  |
| X      | 0  | 1  | X  | X   | SET TO A,B,C,D |    |    |    |
| 0      | 0  | 0  | 0  | 1   | COUNT UP       |    |    |    |
| 0      | 0  | 0  | 0  | 0   | COUNT DOWN     |    |    |    |
| 0      | 0  | 0  | X  | X   | NO CHANGE      |    |    |    |
| X      | 0  | 0  | 1  | X   | NO CHANGE      |    |    |    |

| COUNT |    | OUTPUTS |    |    |    |
|-------|----|---------|----|----|----|
| QD    | QC | QB      | QA | QD | QC |
| 0     | 0  | 0       | 0  | 0  | 0  |
| 1     | 0  | 0       | 0  | 1  | 0  |
| 2     | 0  | 0       | 1  | 0  | 0  |
| 3     | 0  | 0       | 1  | 1  | 0  |
| 4     | 0  | 1       | 0  | 0  | 0  |
| 5     | 0  | 1       | 0  | 1  | 0  |
| 6     | 0  | 1       | 1  | 0  | 0  |
| 7     | 0  | 1       | 1  | 1  | 0  |
| 8     | 1  | 0       | 0  | 0  | 0  |
| 9     | 1  | 0       | 0  | 1  | 0  |

0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE

CO=L  
Ci=L & (DOWN·COUNT "0" OR UP·COUNT "9")

TC74HC138P (TOSHIBA)  
C-MOS 3-TO-8 LINE DECODER/DEMULPLEXER  
— TOP VIEW —

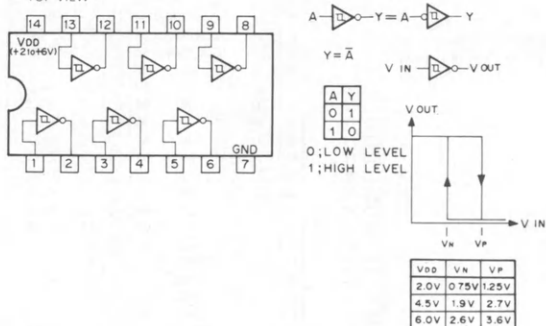


| INPUT |   |   |   | OUTPUT |    |    |    |    |    |    |    |
|-------|---|---|---|--------|----|----|----|----|----|----|----|
| EN    | C | B | A | Y7     | Y6 | Y5 | Y4 | Y3 | Y2 | Y1 | Y0 |
| 0     | X | X | X | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| 1     | 0 | 0 | 0 | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 0  |
| 1     | 0 | 0 | 1 | 1      | 1  | 1  | 1  | 1  | 1  | 0  | 1  |
| 1     | 0 | 1 | 0 | 1      | 1  | 1  | 1  | 1  | 0  | 1  | 1  |
| 1     | 0 | 1 | 1 | 1      | 1  | 1  | 1  | 0  | 1  | 1  | 1  |
| 1     | 1 | 0 | 0 | 1      | 1  | 1  | 0  | 1  | 1  | 1  | 1  |
| 1     | 1 | 0 | 1 | 1      | 1  | 0  | 1  | 1  | 1  | 1  | 1  |
| 1     | 1 | 1 | 0 | 1      | 0  | 1  | 1  | 1  | 1  | 1  | 1  |
| 1     | 1 | 1 | 1 | 0      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

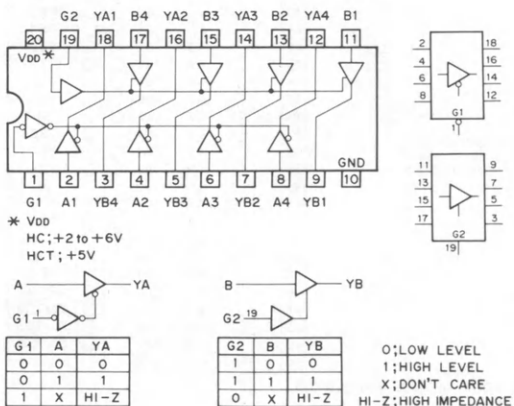
EN = EN1 · EN2 · EN3

0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE

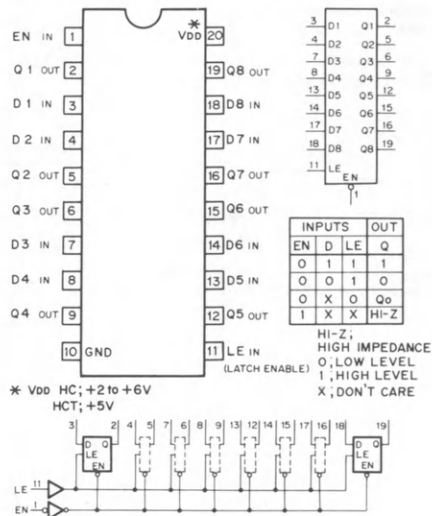
TC74HC14P (TOSHIBA)  
C-MOS SCHMITT TRIGGER INVERTER  
— TOP VIEW —



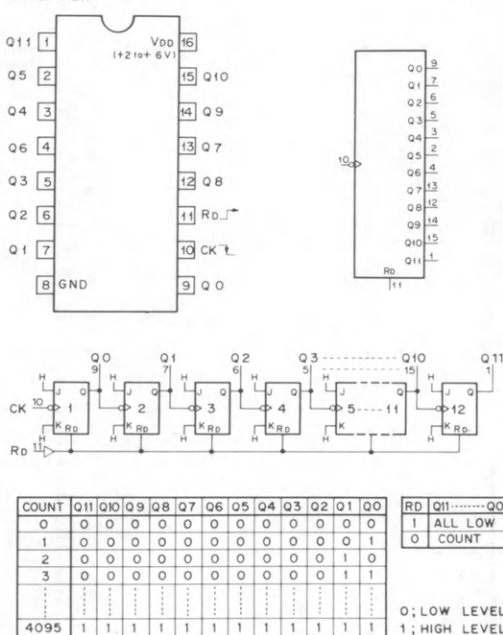
TC74HC241P (TOSHIBA)  
C-MOS 3-STATE NONINVERTING BUFFER/LINE DRIVER/LINE RECEIVER  
— TOP VIEW —



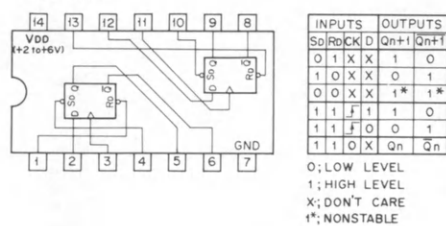
TC74HC373P (TOSHIBA)  
C-MOS 3-STATE OUTPUTS OCTAL LATCHES  
— TOP VIEW —



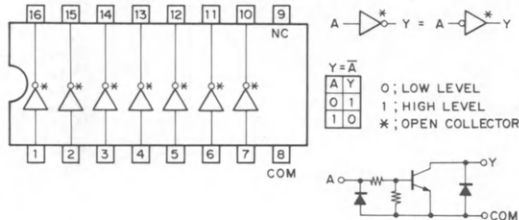
TC74HC4040P (TOSHIBA)  
C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER  
— TOP VIEW —



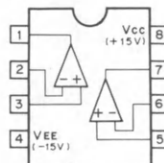
TC74HC74P (TOSHIBA)  
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET  
— TOP VIEW —



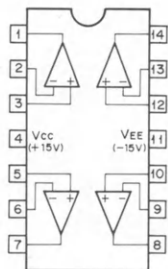
TD62503P (TOSHIBA)  
TRANSISTOR ARRAY, INVERTING DRIVER WITH OPEN COLLECTOR  
— TOP VIEW —



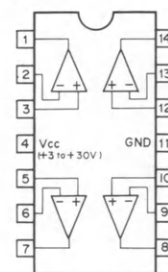
TL082CP (TI)  
OPERATIONAL AMPLIFIER  
(J FET-INPUT)  
— TOP VIEW —



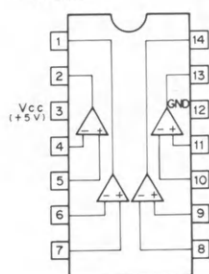
TLO84CN (TI)  
OPERATIONAL AMPLIFIER  
(J FET-INPUT)  
— TOP VIEW —



μPC324C (NEC)  
QUAD. OP. AMPLIFIER  
— TOP VIEW —



μPC339C (NEC)  
COMPARATOR  
— TOP VIEW —

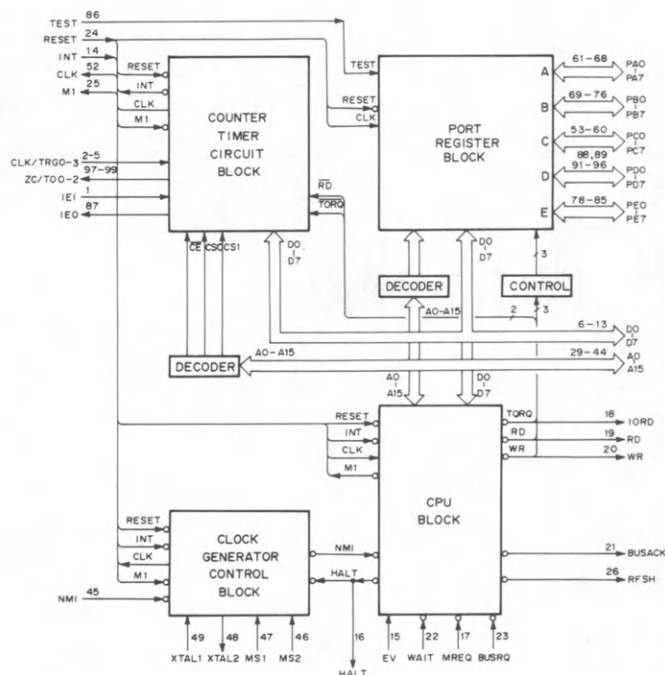


TMP284C011AF (TOSHIBA)  
C-MOS 8 BIT MICROPROCESSOR  
— TOP VIEW —

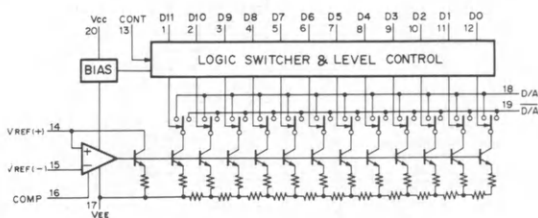
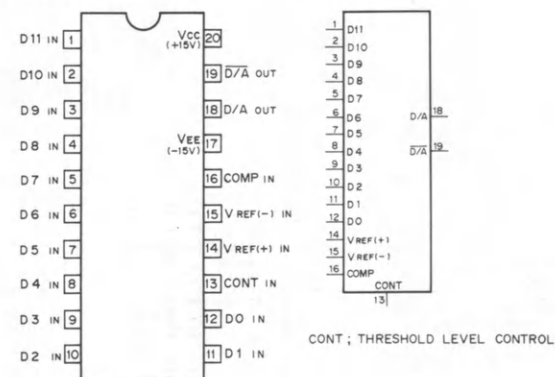


| NO. | IN | OUT | SYMBOL   | NO. | IN | OUT | SYMBOL |
|-----|----|-----|----------|-----|----|-----|--------|
| 1   |    |     | IEI      | 51  |    |     | Vcc    |
| 2   |    |     | CLK/TRG3 | 52  |    |     | CLK    |
| 3   |    |     | CLK/TRG2 | 53  |    |     | PC7    |
| 4   |    |     | CLK/TRG1 | 54  |    |     | PC6    |
| 5   |    |     | CLK/TRG0 | 55  |    |     | PC5    |
| 6   |    |     | D7       | 56  |    |     | PC4    |
| 7   |    |     | D6       | 57  |    |     | PC3    |
| 8   |    |     | D5       | 58  |    |     | PC2    |
| 9   |    |     | D4       | 59  |    |     | PC1    |
| 10  |    |     | D3       | 60  |    |     | PC0    |
| 11  |    |     | D2       | 61  |    |     | PA7    |
| 12  |    |     | D1       | 62  |    |     | PA6    |
| 13  |    |     | D0       | 63  |    |     | PA5    |
| 14  |    |     | INT      | 64  |    |     | PA4    |
| 15  |    |     | EV       | 65  |    |     | PA3    |
| 16  |    |     | HALT     | 66  |    |     | PA2    |
| 17  |    |     | MREQ     | 67  |    |     | PA1    |
| 18  |    |     | IORQ     | 68  |    |     | PA0    |
| 19  |    |     | RD       | 69  |    |     | PB7    |
| 20  |    |     | WR       | 70  |    |     | PB6    |
| 21  |    |     | BUSACK   | 71  |    |     | PB5    |
| 22  |    |     | WAIT     | 72  |    |     | PB4    |
| 23  |    |     | BUSREQ   | 73  |    |     | PB3    |
| 24  |    |     | RESET    | 74  |    |     | PB2    |
| 25  |    |     | MT       | 75  |    |     | PB1    |
| 26  |    |     | RFSH     | 76  |    |     | PB0    |
| 27  |    |     | Vcc      | 77  |    |     | Vss    |
| 28  |    |     | Vss      | 78  |    |     | PE7    |
| 29  |    |     | A0       | 79  |    |     | PE6    |
| 30  |    |     | A1       | 80  |    |     | PE5    |
| 31  |    |     | A2       | 81  |    |     | PE4    |
| 32  |    |     | A3       | 82  |    |     | PE3    |
| 33  |    |     | A4       | 83  |    |     | PE2    |
| 34  |    |     | A5       | 84  |    |     | PE1    |
| 35  |    |     | A6       | 85  |    |     | PE0    |
| 36  |    |     | A7       | 86  |    |     | TEST   |
| 37  |    |     | A8       | 87  |    |     | IE0    |
| 38  |    |     | A9       | 88  |    |     | PD7    |
| 39  |    |     | A10      | 89  |    |     | PD6    |
| 40  |    |     | A11      | 90  |    |     | Vcc    |
| 41  |    |     | A12      | 91  |    |     | PD5    |
| 42  |    |     | A13      | 92  |    |     | PD4    |
| 43  |    |     | A14      | 93  |    |     | PD3    |
| 44  |    |     | A15      | 94  |    |     | PD2    |
| 45  |    |     | NMI      | 95  |    |     | PD1    |
| 46  |    |     | MS2      | 96  |    |     | PD0    |
| 47  |    |     | MS1      | 97  |    |     | ZC/T02 |
| 48  |    |     | XTAL2    | 98  |    |     | ZC/T01 |
| 49  |    |     | XTAL1    | 99  |    |     | ZC/T00 |
| 50  |    |     | Vss      | 100 |    |     | Vss    |

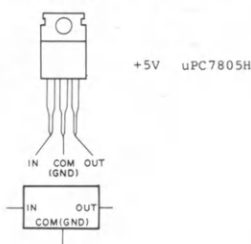
|     |          |        |    |  |
|-----|----------|--------|----|--|
| 56  | PA0      | A0     | 29 | A0-A15; 3-STATE ADDRESS BUS OUTPUTS                  |
| 57  | PA1      | A1     | 30 | BUSACK; BUS ACKNOWLEDGE OUTPUT                       |
| 58  | PA2      | A2     | 31 | BUSREQ; BUS REQUEST INPUT                            |
| 59  | PA3      | A3     | 32 | CLK; CLOCK OUTPUT                                    |
| 60  | PA4      | A4     | 33 | CLK/TRG0-3; EXTERNAL CLOCK / TIMER TRIGGER0-3 INPUTS |
| 61  | PA5      | A5     | 34 | D0-D7; 3-STATE DATA BUS INPUTS/OUTPUTS               |
| 62  | PA6      | A6     | 35 | EV; EVALUATOR INPUT                                  |
| 63  | PA7      | A7     | 36 | HALT; HALT OUTPUT                                    |
| 64  | PA8      | A8     | 37 | IEI/IE0; CTC INTERRUPT ENABLE INPUT/OUTPUT           |
| 65  | PA9      | A9     | 38 | INT; MASKABLE INTERRUPT REQUEST INPUT                |
| 66  | PA10     | A10    | 39 | IORQ; 3-STATE I/O REQUEST OUTPUT                     |
| 67  | PA11     | A11    | 40 | M1; 3-STATE MACHINE CYCLE 1 OUTPUT                   |
| 68  | PA12     | A12    | 41 | MREQ; 3-STATE REQUEST OUTPUT                         |
| 69  | PA13     | A13    | 42 | MS1/MS2; MODE SELECT 1/2 INPUTS                      |
| 70  | PA14     | A14    | 43 | NMI; NON-MASKABLE INTERRUPT REQUEST INPUT            |
| 71  | PA15     | A15    | 44 | PA0-PA7  |
| 72  | PB0      | D0     | 13 | PB0-PB7  |
| 73  | PB1      | D1     | 14 | PC0-PC7  |
| 74  | PB2      | D2     | 15 | PD0-PD7  |
| 75  | PB3      | D3     | 16 | PE0-PE7  |
| 76  | PB4      | D4     | 17 | RD; 3-STATE READ OUTPUT                              |
| 77  | PB5      | D5     | 18 | RESET; RESET INPUT                                   |
| 78  | PB6      | D6     | 19 | RFSH; REFRESH OUTPUT                                 |
| 79  | PB7      | D7     | 20 | TEST; TEST INPUT                                     |
| 80  | PC0      | D0     | 21 | WAIT; WAIT REQUEST INPUT                             |
| 81  | PC1      | D1     | 22 | WR; 3-STATE WRITE OUTPUT                             |
| 82  | PC2      | D2     | 23 | ZC/T00-2; ZERO COUNT/TIME OUT 0-2 OUTPUTS            |
| 83  | PC3      | D3     | 24 |  |
| 84  | PC4      | D4     | 25 |  |
| 85  | PC5      | D5     | 26 |  |
| 86  | PC6      | D6     | 27 |  |
| 87  | PC7      | D7     | 28 |  |
| 88  | PD0      | CLK    | 52 |  |
| 89  | PD1      |        |    |  |
| 90  | PD2      |        |    |  |
| 91  | PD3      |        |    |  |
| 92  | PD4      |        |    |  |
| 93  | PD5      |        |    |  |
| 94  | PD6      |        |    |  |
| 95  | PD7      |        |    |  |
| 96  | PE0      |        |    |  |
| 97  | PE1      |        |    |  |
| 98  | PE2      |        |    |  |
| 99  | PE3      |        |    |  |
| 100 | PE4      |        |    |  |
| 101 | PE5      |        |    |  |
| 102 | PE6      |        |    |  |
| 103 | PE7      |        |    |  |
| 104 | CLK/TRG0 | ZC/T00 | 99 |  |
| 105 | CLK/TRG1 | ZC/T01 | 98 |  |
| 106 | CLK/TRG2 | ZC/T02 | 97 |  |
| 107 | CLK/TRG3 | RESET  | 24 |  |
| 108 | IEI      | IE0    | 87 |  |
| 109 | INT      |        |    |  |
| 110 | NMI      | M1     | 25 |  |
| 111 | MS1      | XTAL1  | 48 |  |
| 112 | MS2      | XTAL2  | 49 |  |
| 113 |          |        | 47 |  |
| 114 |          |        | 46 |  |
| 115 |          |        | 45 |  |
| 116 |          |        | 44 |  |
| 117 |          |        | 43 |  |
| 118 |          |        | 42 |  |
| 119 |          |        | 41 |  |
| 120 |          |        | 40 |  |
| 121 |          |        | 39 |  |
| 122 |          |        | 38 |  |
| 123 |          |        | 37 |  |
| 124 |          |        | 36 |  |
| 125 |          |        | 35 |  |
| 126 |          |        | 34 |  |
| 127 |          |        | 33 |  |
| 128 |          |        | 32 |  |
| 129 |          |        | 31 |  |
| 130 |          |        | 30 |  |
| 131 |          |        | 29 |  |
| 132 |          |        | 28 |  |
| 133 |          |        | 27 |  |
| 134 |          |        | 26 |  |
| 135 |          |        | 25 |  |
| 136 |          |        | 24 |  |
| 137 |          |        | 23 |  |
| 138 |          |        | 22 |  |
| 139 |          |        | 21 |  |
| 140 |          |        | 20 |  |
| 141 |          |        | 19 |  |
| 142 |          |        | 18 |  |
| 143 |          |        | 17 |  |
| 144 |          |        | 16 |  |
| 145 |          |        | 15 |  |
| 146 |          |        | 14 |  |
| 147 |          |        | 13 |  |
| 148 |          |        | 12 |  |
| 149 |          |        | 11 |  |
| 150 |          |        | 10 |  |
| 151 |          |        | 9  |  |
| 152 |          |        | 8  |  |
| 153 |          |        | 7  |  |
| 154 |          |        | 6  |  |
| 155 |          |        | 5  |  |
| 156 |          |        | 4  |  |
| 157 |          |        | 3  |  |
| 158 |          |        | 2  |  |
| 159 |          |        | 1  |  |
| 160 |          |        | 0  |  |



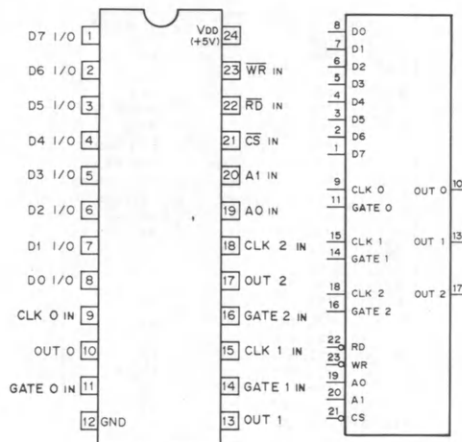
uPC648C (NEC)  
12-BIT D/A CONVERTER WITH OPEN COLLECTOR OUTPUT  
— TOP VIEW —



uPC78 ? 7H (NEC)  
POSITIVE VOLTAGE REGULATOR (1A)  
— SIDE VIEW —



uPD71054C (NEC)  
C-MOS PROGRAMMABLE TIMER COUNTER  
— TOP VIEW —

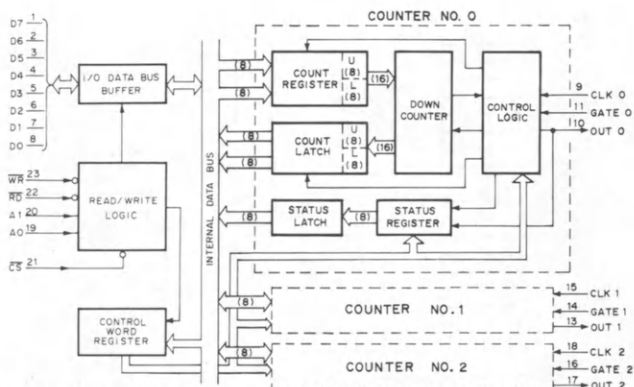


FUNCTION TABLE

| INPUTS         | FUNCTION            |
|----------------|---------------------|
| CS RD WR A1 A0 |                     |
| 0 1 0 0 0      | Load Counter No. 0  |
| 0 1 0 0 1      | Load Counter No. 1  |
| 0 1 0 1 0      | Load Counter No. 2  |
| 0 1 0 1 1      | Control Word        |
| 0 0 1 0 0      | Read Counter 0      |
| 0 0 1 0 1      | Read Counter 1      |
| 0 0 1 1 0      | Read Counter 2      |
| 0 0 1 1 1      | No-Operation (HI-Z) |
| 1 X X X X      | Disable (HI-Z)      |
| 0 1 1 X X      | No-Operation (HI-Z) |

D7-D0 : 8-BIT DATA I/O  
CLK 0-2 : COUNTER CLOCK  
GATE 0-2 : COUNTER GATE  
OUT 0-2 : COUNTER OUTPUT  
RD : READ COUNTER  
WR : WRITE CMD OR DATA  
CS : CHIP SELECT  
A0,A1 : COUNTER SELECT

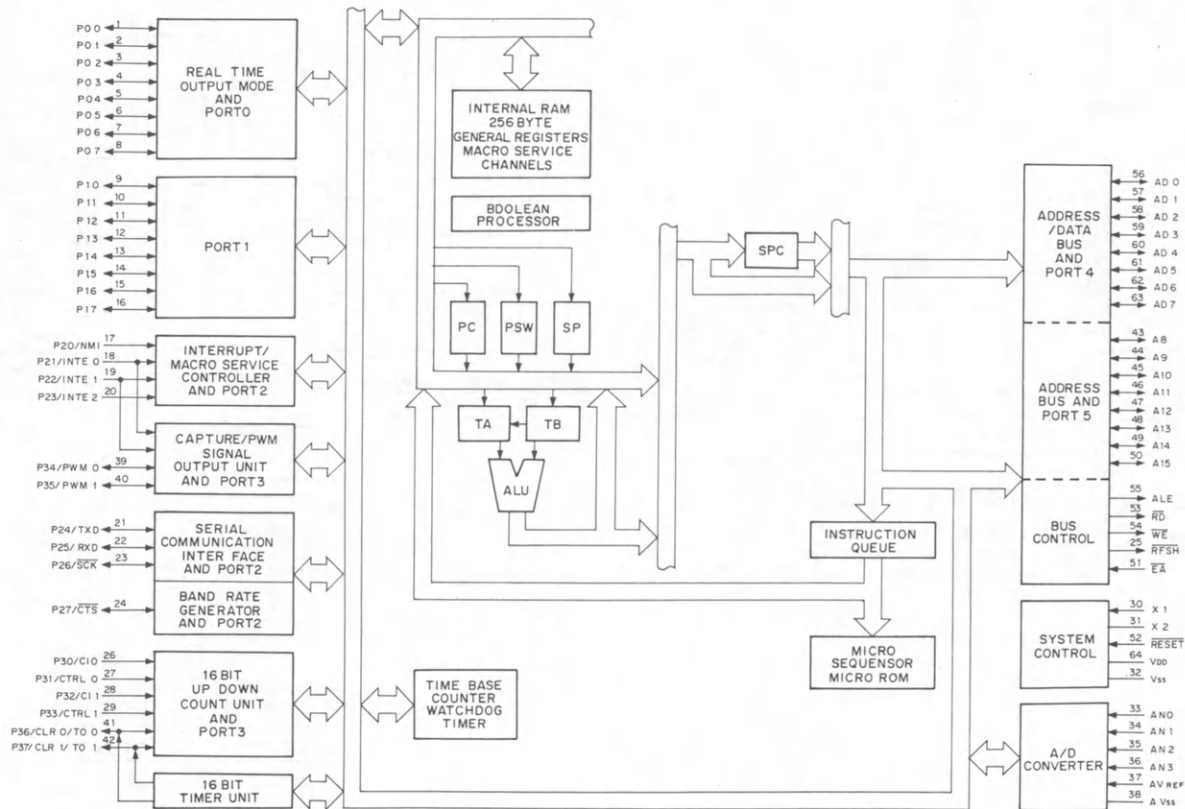
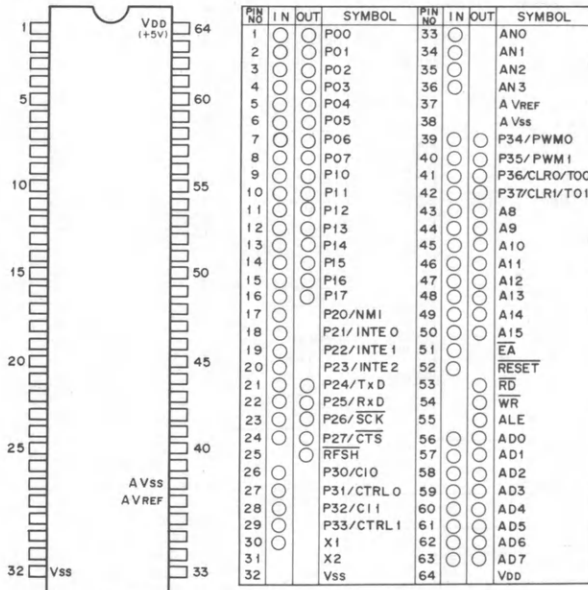
0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE  
HI-Z; HIGH IMPEDANCE



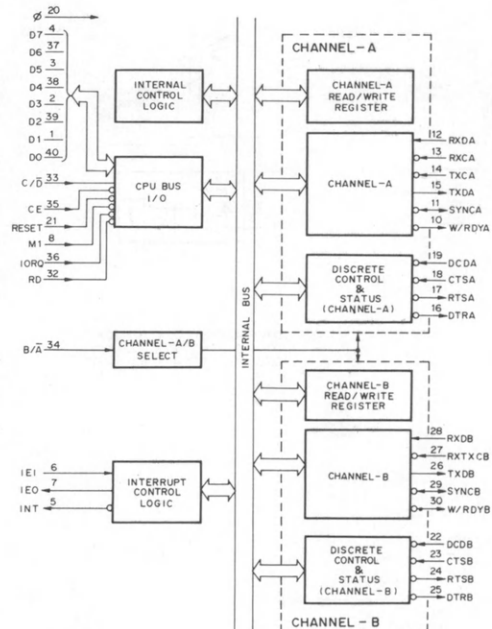
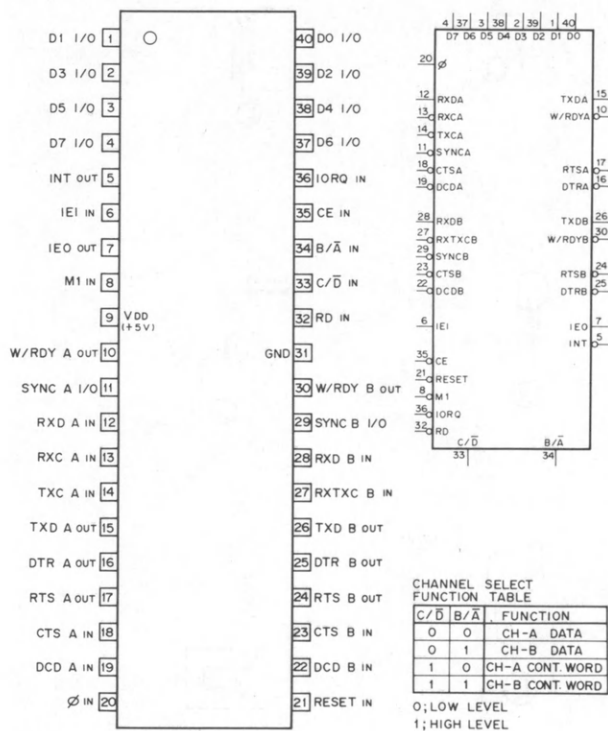
CONTROL WORD FORMAT

| D7 | D6 | D5 | D4 | D3 | D2 | D1 | D0 | SC1 | SC0 | RL0 | M2 | M1 | M0 | BCD                      |
|----|----|----|----|----|----|----|----|-----|-----|-----|----|----|----|--------------------------|
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | BCD OPERATION            |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 0 16-BIT BINARY          |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 1 BCD (4-DECADE)         |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | M2 M1 M0 MODE            |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 0 0 0 0                  |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 0 0 0 1                  |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | X 1 0 2                  |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | X 1 1 3                  |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 1 0 0 4                  |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 1 0 1 5                  |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | RL1 RL0 OPERATION        |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 0 0 COUNTER LATCHING     |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 0 1 READ/LOAD LSB ONLY   |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 1 0 READ/LOAD MSB ONLY   |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 1 1 LSB FIRST THEN MSB   |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | SC1 SC0 SELECTED COUNTER |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 0 0 COUNTER No. 0        |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 0 1 COUNTER No. 1        |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 1 0 COUNTER No. 2        |
|    |    |    |    |    |    |    |    |     |     |     |    |    |    | 1 1 MULTIPLE LATCH CMD   |

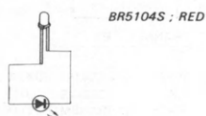
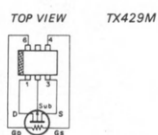
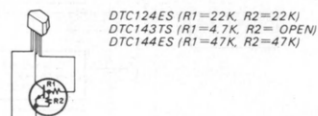
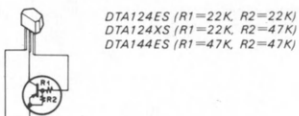
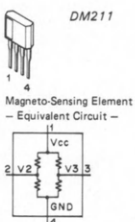
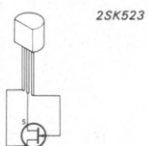
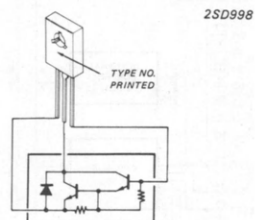
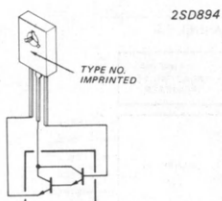
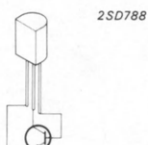
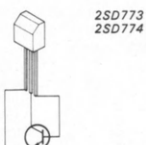
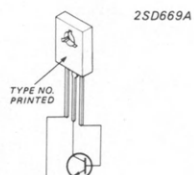
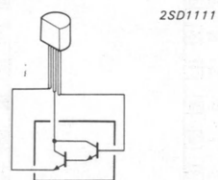
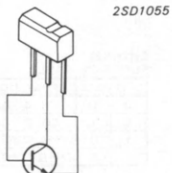
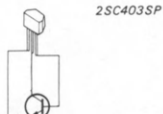
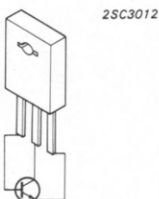
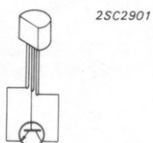
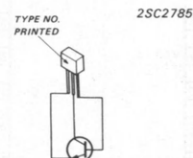
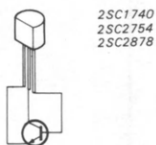
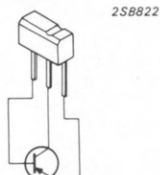
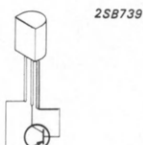
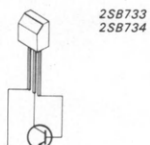
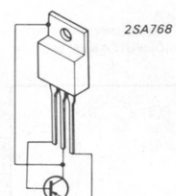
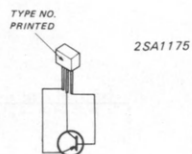
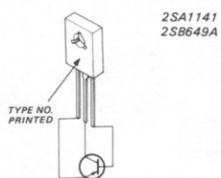
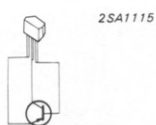
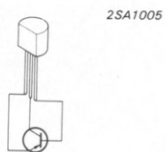
uPD78310CW (NEC)  
C MOS 16/8 BIT ONE CHIP MICROCOMPUTER  
— TOP VIEW —



Z80A-SIO/O (ZiLOG)  
N-MOS 2-CHANNEL SERIAL INPUT/OUTPUT  
FOR MICROCOMPUTER SYSTEM  
— TOP VIEW —

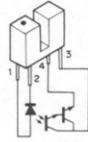


Ø ; SYSTEM CLOCK IN  
 D7-D0 ; DATA BUS(3 STATE)/I/O  
 C/D ; CONTROL/DATA SELECT IN  
 CE ; CHIP ENABLE IN  
 M1 ; MACHINE CYCLE 1 IN  
 IORQ ; I/O REQUEST IN  
 RD ; READ IN  
 B/A ; CHANNEL B/A SELECT IN  
 IEI ; INTERRUPT ENABLE IN  
 IEO ; INTERRUPT ENABLE OUT  
 INT ; INTERRUPT OUT  
 RXD ; RECEIVE DATA IN  
 RXC ; RECEIVE CLOCK IN  
 TXC ; TRANSMIT CLOCK IN  
 TXD ; TRANSMIT DATA OUT  
 SYNC ; EXTERNAL CHARACTER SYNCHRONIZATION I/O  
 W/RDY ; WAIT/READY OUT  
 DCD ; DATA CARRIER DETECT IN  
 CTS ; CLEAR TO SEND IN  
 RTS ; REQUEST TO SEND OUT  
 DTR ; DATA TERMINAL READY OUT





GL-5HD5 ; RED



GP-1L52  
GP-1L53

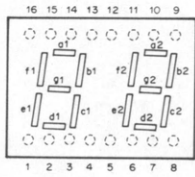


FC54M

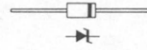
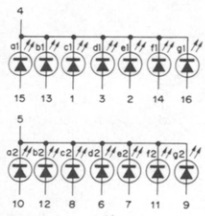


HLMP-1302 ; RED

DUAL 7-SEGMENT LED  
— TOP VIEW —



LB402VK (ROHM)



RD 7 7ES



SPS102



TLG255 ; GREEN  
TLY255 ; YELLOW



U05E



SECTION 16  
SCHEMATIC DIAGRAMS

回路図内において、REF. NO の近傍に下記記号が記載されていますが、これは生産時の部品データです。

In the schematic diagrams, the following marks are described nearby reference number.  
These are parts data at factory.

CAPACITOR (C)                      RESISTOR (R)  
   VARIABLE RESISTOR (RV)

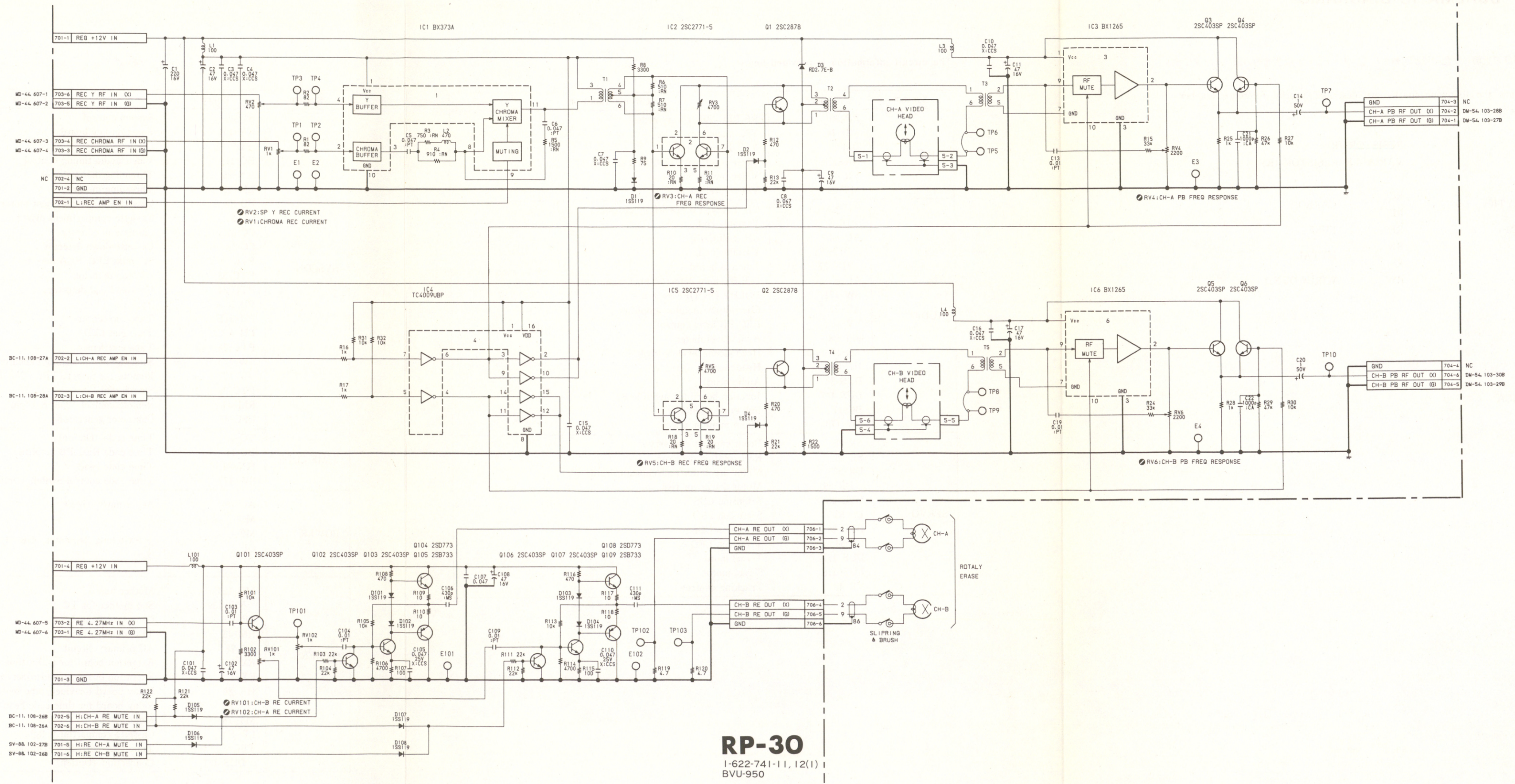
|     |   |              |    |   |           |
|-----|---|--------------|----|---|-----------|
| AL  | } | ELECTROLYTIC | RC | } | CARBON    |
| AS  |   |              | RD |   |           |
| TA  | } | TANTALUM     | RF | } | FUSE      |
| CA  |   |              | RN |   |           |
| CC  | } | CERAMIC      | RS | } | METAL     |
| CCS |   |              | RW |   |           |
| CM  |   |              |    | } | WIREWOUND |
| CS  |   |              |    |   |           |
| MPS | } | MYLAR        |    |   |           |
| PP  |   |              |    |   |           |
| PS  |   |              |    |   |           |
| PT  | } | DIPPED MICA  |    |   |           |
| MD  |   |              |    |   |           |
| MS  |   |              |    |   |           |
|     |   | MICA         |    |   |           |

The circuit information is provided below.

| System | Board   | Circuit function                     |
|--------|---------|--------------------------------------|
| VIDEO  | RP-30   | RF REC/PB /rotary erase              |
|        | MD-44   | Y/C modulator                        |
|        | DM-54   | Y/C demodulator                      |
|        | SW-170  | Video level MANU/AUTO select         |
|        | VR-48   | Video level control                  |
|        | MT-28   | Video level meter                    |
| AUDIO  | AU-83   | CH-1 REC/PB /DOLBY processor         |
|        | DUS-71  | Variable coil                        |
|        | AU-84   | CH-2 REC/PB                          |
|        | DUS-71  | Variable coil                        |
|        | HN-77   | Junction board                       |
|        | AU-85   | DOLBY auto detector, bias oscillator |
|        | SW-171  | DOLBY ON/OFF switch                  |
|        | AU-87   | Mic/output/monitor amplifier         |
|        | VR-48   | REC/PB level control                 |
|        | MT-28   | Audio level meter                    |
|        | VR-49   | Headphones level control             |
|        | HP-28   | Headphones                           |
|        | DUS-92  | Audio head                           |
|        | DUS-147 | Junction board for audio head        |
|        | BC-11   | Full erase oscillator                |
|        | SW-170  | Audio monitor select                 |
| SERVO  | SV-88   | Drum/capstan/reel servo              |
|        | SE-48   | Reel rotation detector               |
|        | DR-53   | Motor driver for reel/capstan/drum   |
|        | DR-59   | Motor driver for reel                |
|        | PTC-28  | S-tension CDS                        |
|        | LE-53   | S-tension LED                        |
|        | PTC-29  | T-tension CDS                        |
|        | LE-54   | T-tension LED                        |
|        | DUS-177 | T-reel motor                         |
|        | DUS-178 | S-reel motor                         |
|        | VR-48   | Tracking control                     |
|        |         |                                      |

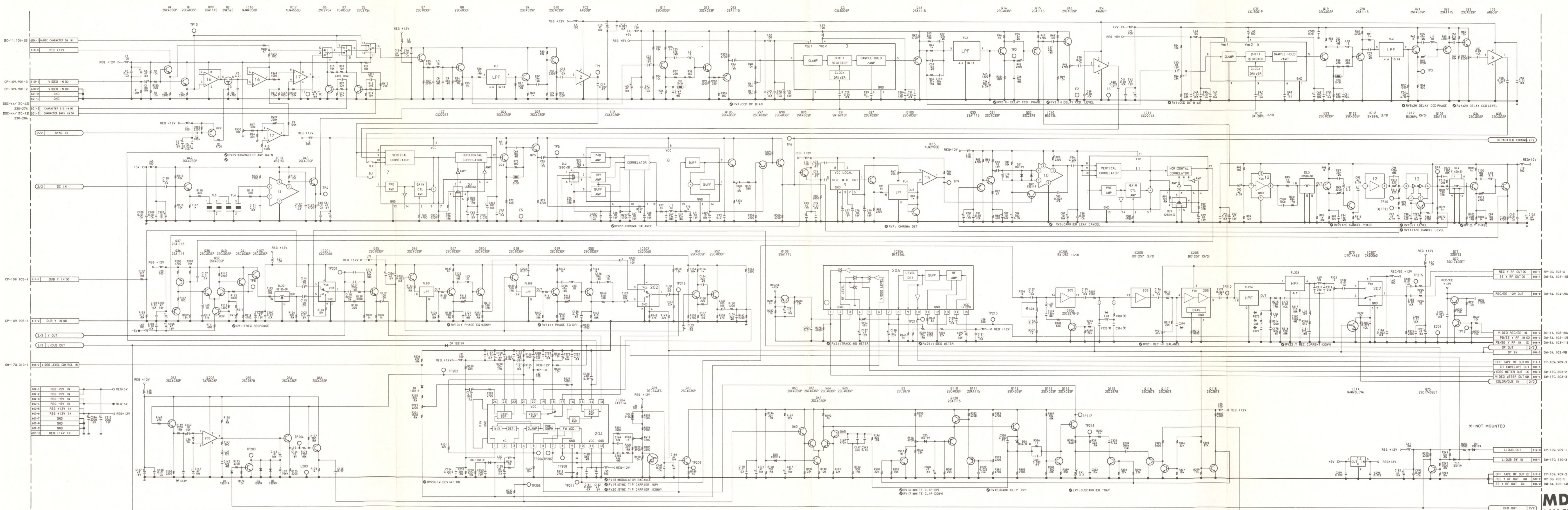
| System    | Board   | Circuit function                                     |
|-----------|---------|--|
| SYSCON    | SY-102  | System control                                       |
|           | KY-101  | Function key board                                   |
|           | DP-62   | Display  |
|           | BC-11   | Video/audio timing control                           |
|           | HN-80   | Threading motor driver                               |
|           | LM-13   | Threading motor                                      |
|           | PD-37   | Cassette-up compartment motor driver/Solenoid driver |
|           | CC-31   | Cassette compartment driver                          |
|           | CC-32   | Cassette in detector                                 |
|           | CC-33   | Cassette down detector                               |
|           | PTC-30  | SP, miss REC. KCA detector                           |
|           | PTC-33  | FR stop detector                                     |
|           | PTC-34  | Unthread end detector                                |
|           | PH-5(A) | Tape top LED   |
|           | PH-5(B) | Tape top sensor                                      |
|           | PH-5(C) | Tape end LED   |
|           | PTC-26  | Tape end sensor                                      |
|           | SW-170  | Select switch /warning indicator                     |
|           | SW-171  | Remote 1/2 Select /TBC ON/OFF /Character ON/OFF      |
| TIME CODE | PTC-32  | Search dial  |
|           | RM-44   | Remote control (9pin & 24pin)                        |
|           | DSC-44  | Character generator                                  |
|           |         |  |
| POWER     | TC-42   | Time code (Option)                                   |
|           | BC-11   | Time code REC/PB amplifier                           |
|           | HN-84   | Time code head                                       |
|           | SW-172  | Time code control Switch (Option)                    |
| OTHERS    | AC-78   | AC primary circuit                                   |
|           | M1      | } Switching Regulator (UR-21)                        |
|           | M2      |  |
|           | C1      |  |
|           | C2      |  |
|           |         |  |
|           | MB-127  | Mother board   |
|           | MB-139  | Sub mother for TC                                    |
|           | CP-109  | Connector pannel                                     |
|           | RM-45   | TBC remote control                                   |
|           | AC-78   | AC primary circuit                                   |
|           | EX-127  | Extention board for audio/time code                  |
|           | EX-128  | Extention board for video/servo/TBC                  |
|           | HN-80   | Relay board for video/tape sensor/thread motor drive |
|           | HN-83   | Relay board for time code head/erase head            |
|           | MT-28   | Meter  |
|           | LP-41   | Cassette compartment light                           |
|           | TBC-5   | Time base corrector (Option)                         |
|           | DUS-151 | Connection (Option)                                  |





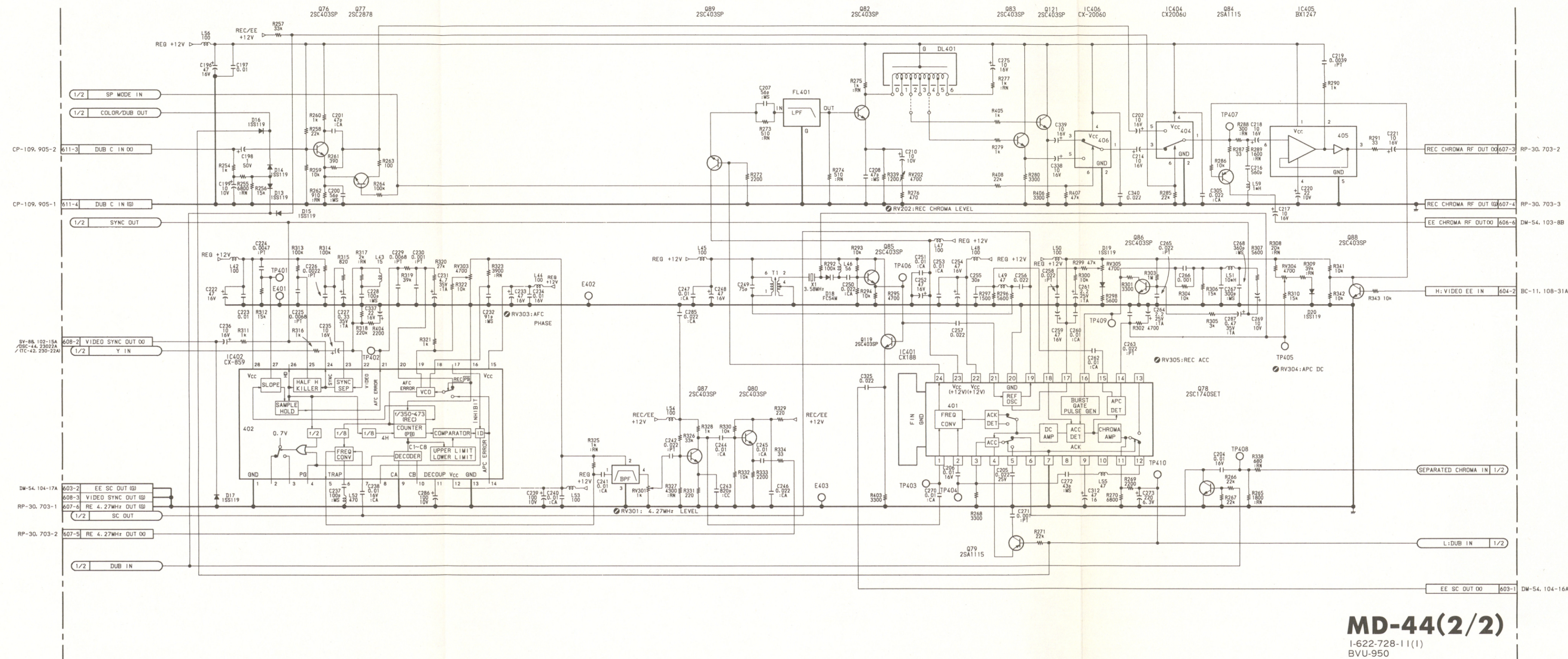


## MD-44(1/2); Y/C MODULATOR



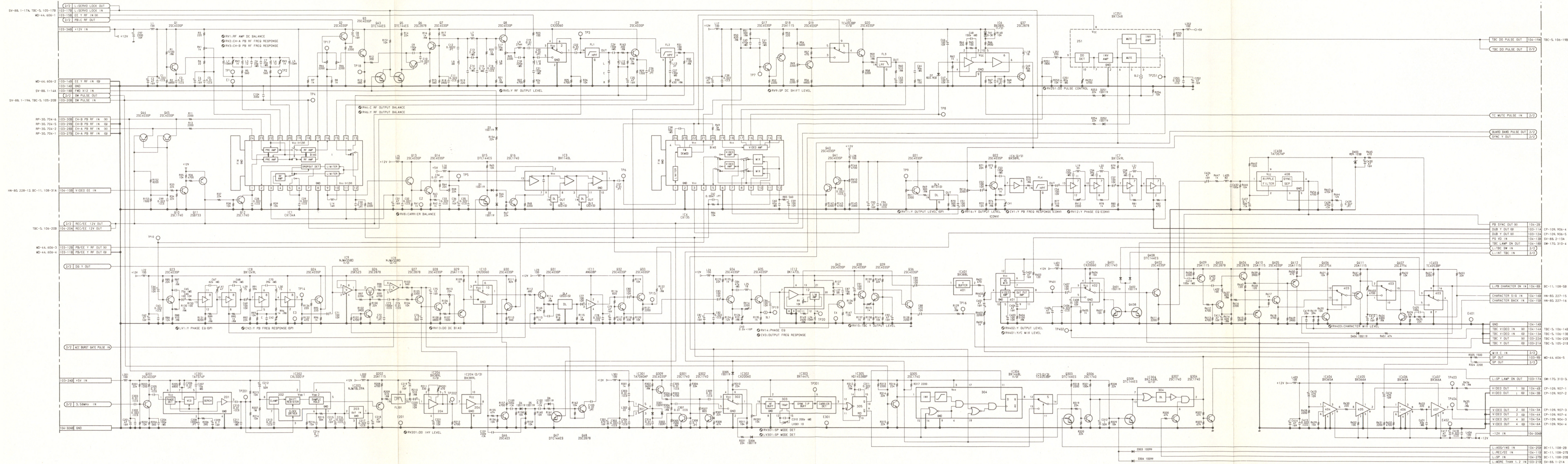


**MD-44(2/2)**  
I-622-728-11(1)  
BVU-950

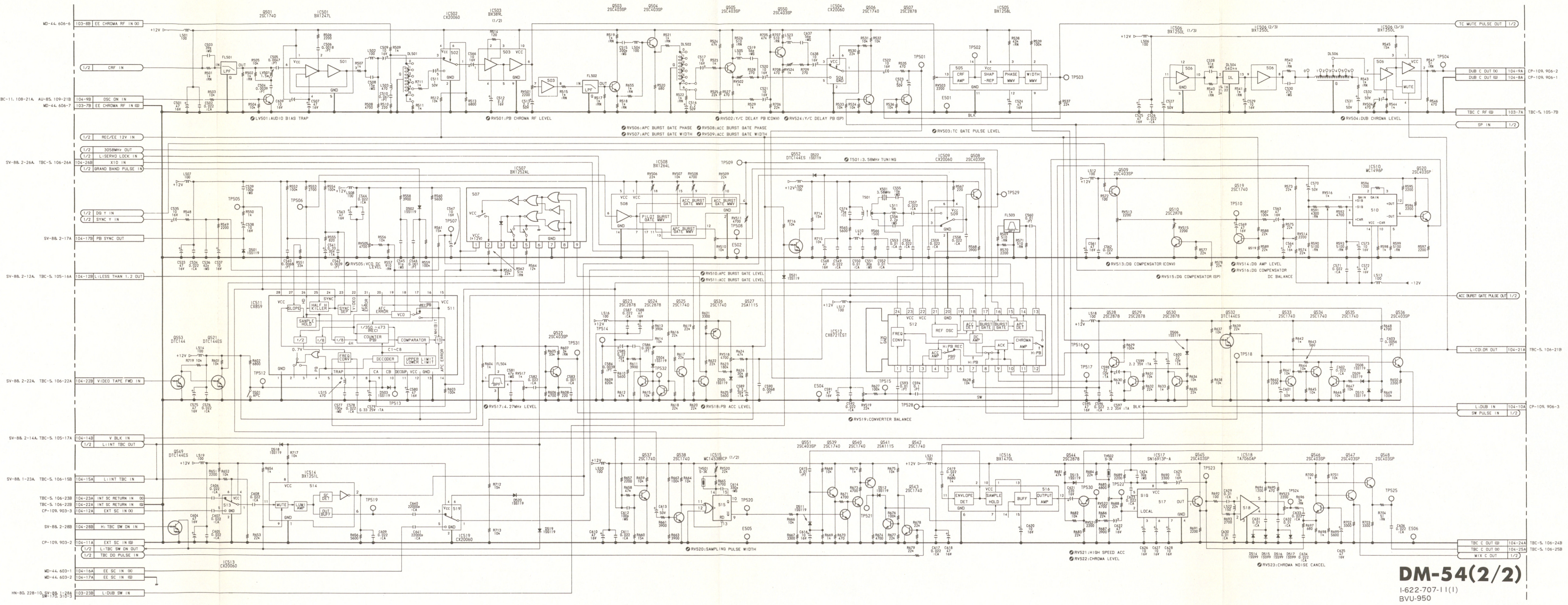




**DM-54(1 / 2)**  
1-622-707-11(1)  
BVU-950



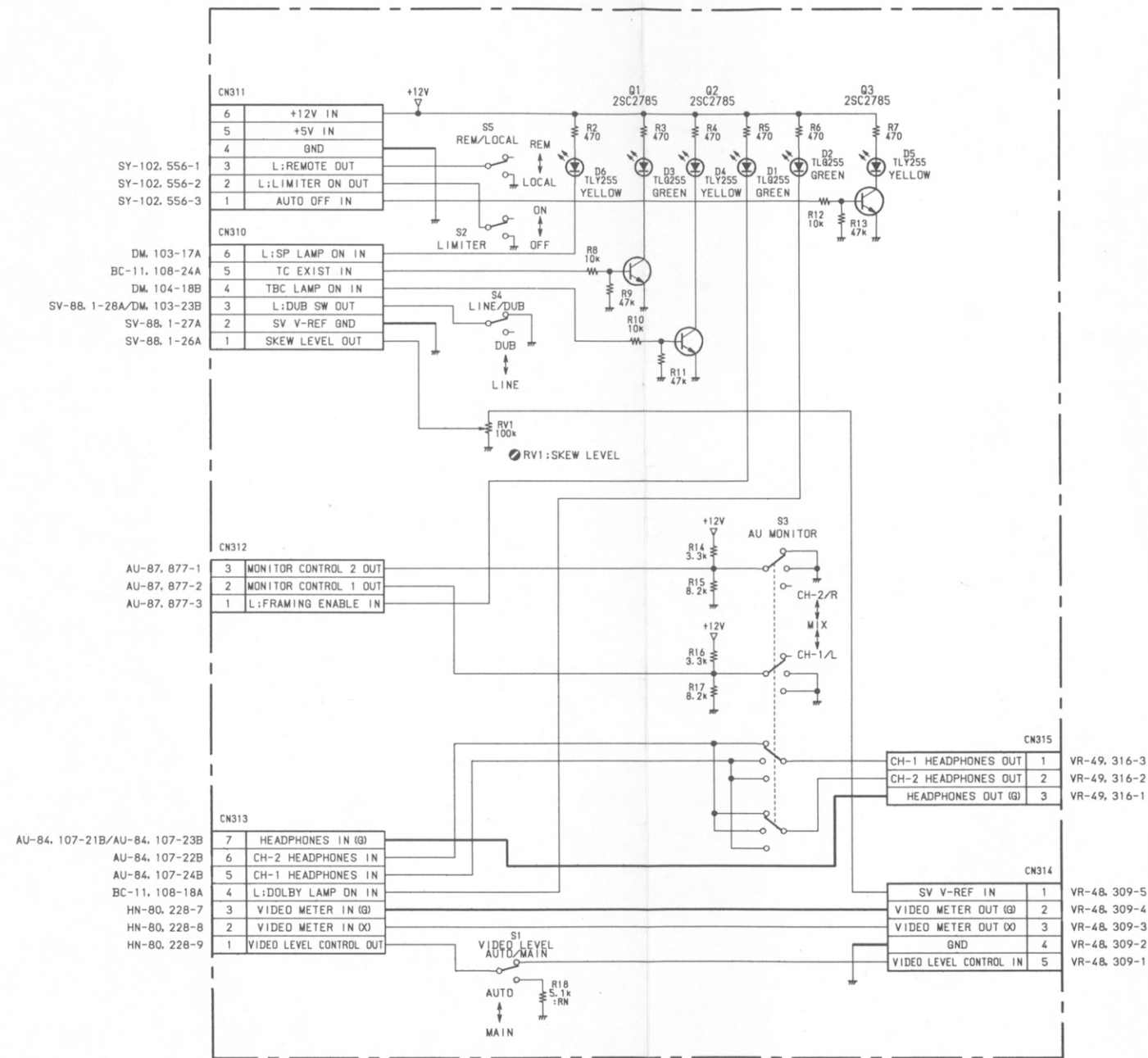




**DM-54(2/2)**  
1-622-707-1 (1)  
BVU-950



SW-170; SELECT SWITCH/WARNING INDICATOR



**SW-170**

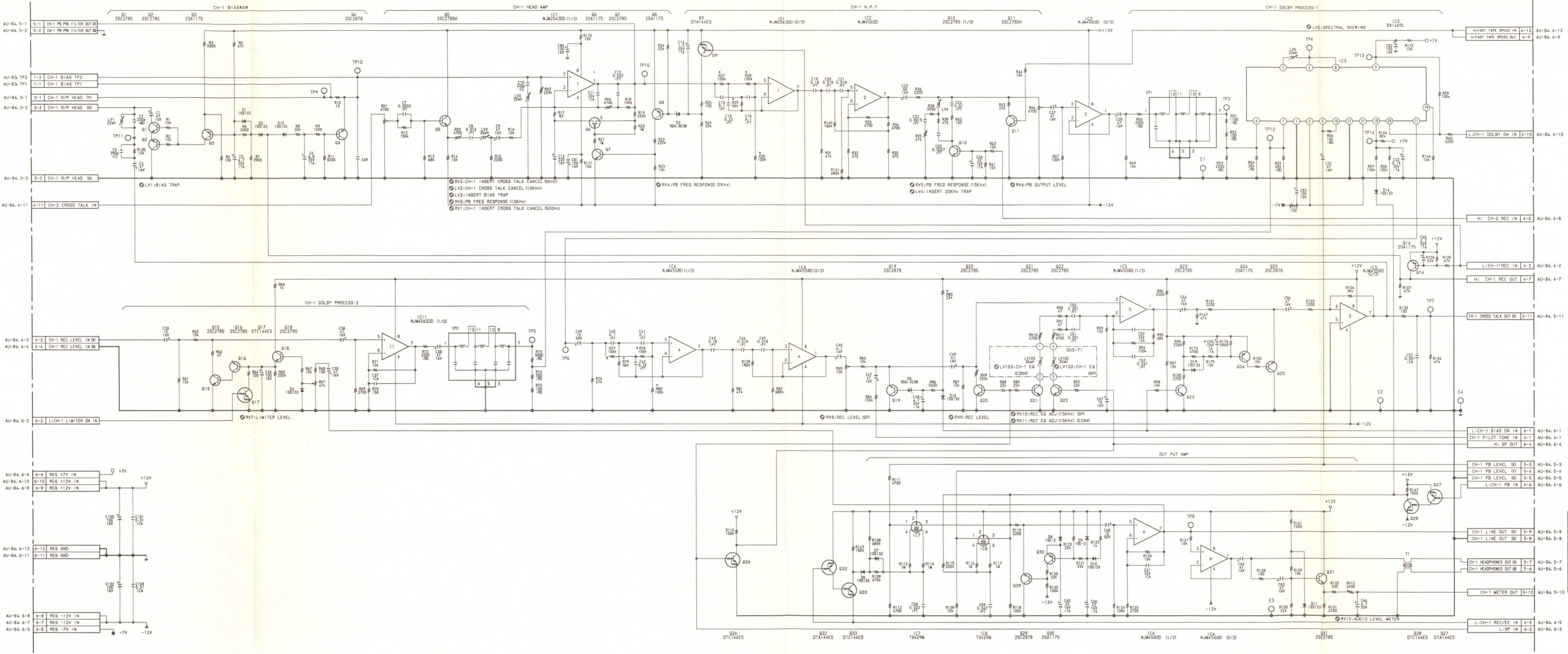
I-622-737-11(I)  
BVU-950  
BVU-950P

**VR-48; VIDEO/AUDIO/TRACKING LEVEL CONTROL**





AU-83; CH-1 REC/PB /DOLBY PROCESSOR  
DUS-71; VARIABLE COIL

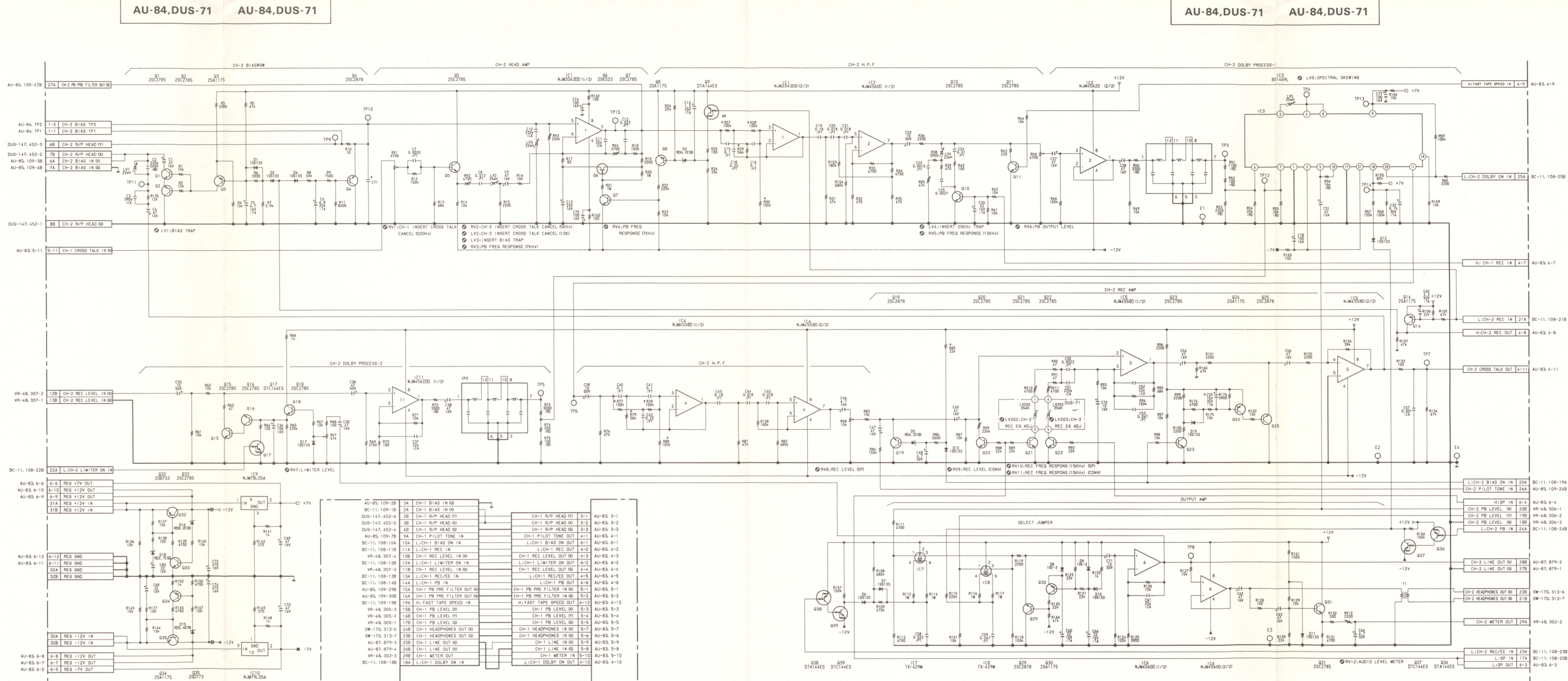


| MARK | NTSC    | PAL     |
|------|---------|---------|
| R27  | 100K    | 120K    |
| R28  | 100K    | 120K    |
| R30  | 100K    | 120K    |
| R77  | 100K    | 120K    |
| R78  | 100K    | 120K    |
| R80  | 100K    | 120K    |
| R85  | 22K     | 10K     |
| C55  | 10u/16v | 15u/16v |
| R29  | 56K     | 68K     |
| R79  | 56K     | 68K     |

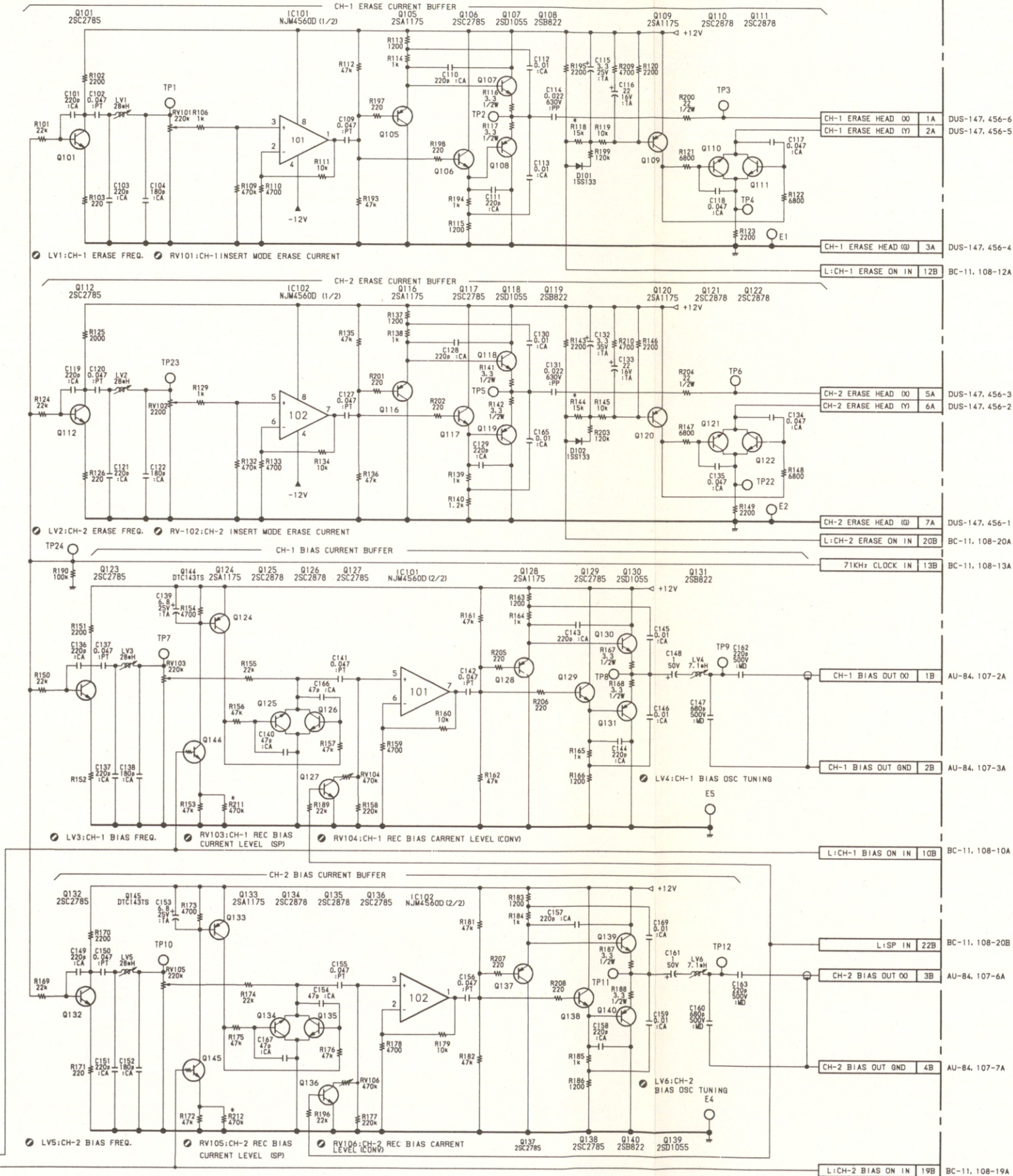
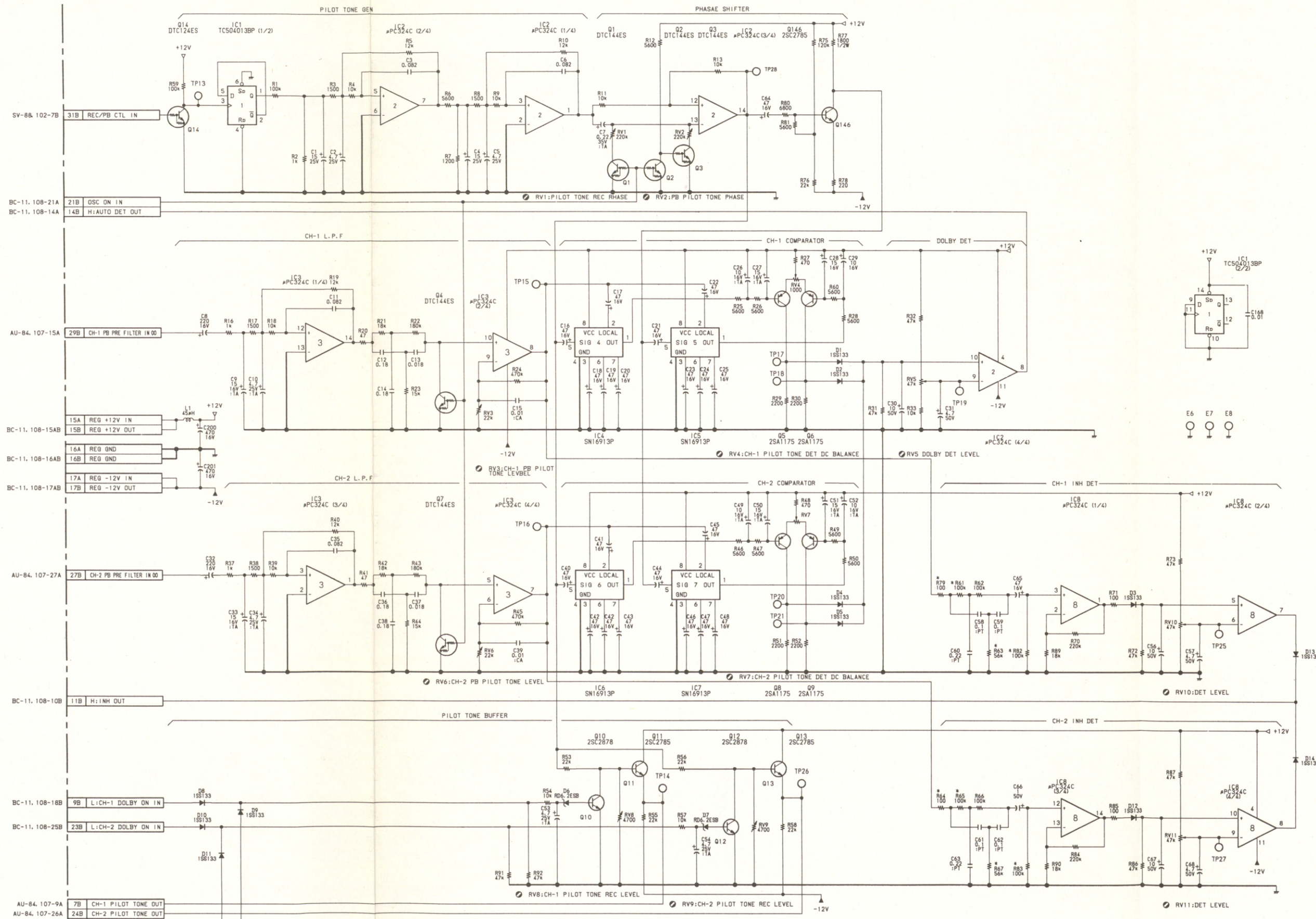
**AU-83/A**  
1-622-700-11(1)  
BVU-950  
BVU-950P



AU-84; CH-2 REC/PB AMPLIFIER  
DUS-71; VARIABLE COIL





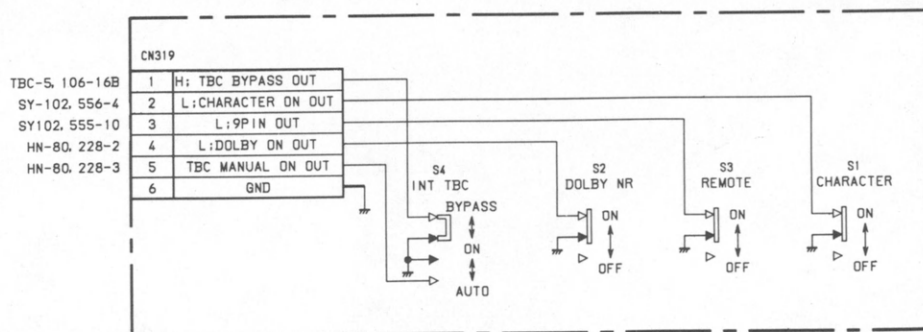


| MARK | AU-85 | AU-85A |
|------|-------|--------|
| R1   | 100K  | 120K   |
| R2   | 100K  | 120K   |
| R3   | 100K  | 120K   |
| R4   | 100K  | 120K   |
| R5   | 100K  | 120K   |
| R6   | 100K  | 120K   |
| R7   | 100K  | 120K   |
| R8   | 100K  | 120K   |
| R9   | 100K  | 120K   |
| R10  | 100K  | 120K   |
| R11  | 100K  | 120K   |
| R12  | 100K  | 120K   |
| R13  | 100K  | 120K   |
| R14  | 100K  | 120K   |
| R15  | 100K  | 120K   |
| R16  | 100K  | 120K   |
| R17  | 100K  | 120K   |
| R18  | 100K  | 120K   |
| R19  | 100K  | 120K   |
| R20  | 100K  | 120K   |
| R21  | 470K  | —      |
| R22  | 470K  | —      |
| R23  | 56K   | 68K    |
| R24  | 56K   | 68K    |
| R25  | 100K  | 120K   |
| R26  | 100K  | 120K   |

**AU-85/A**  
1-622-702-11(1)  
BVU-950  
BVU-950P

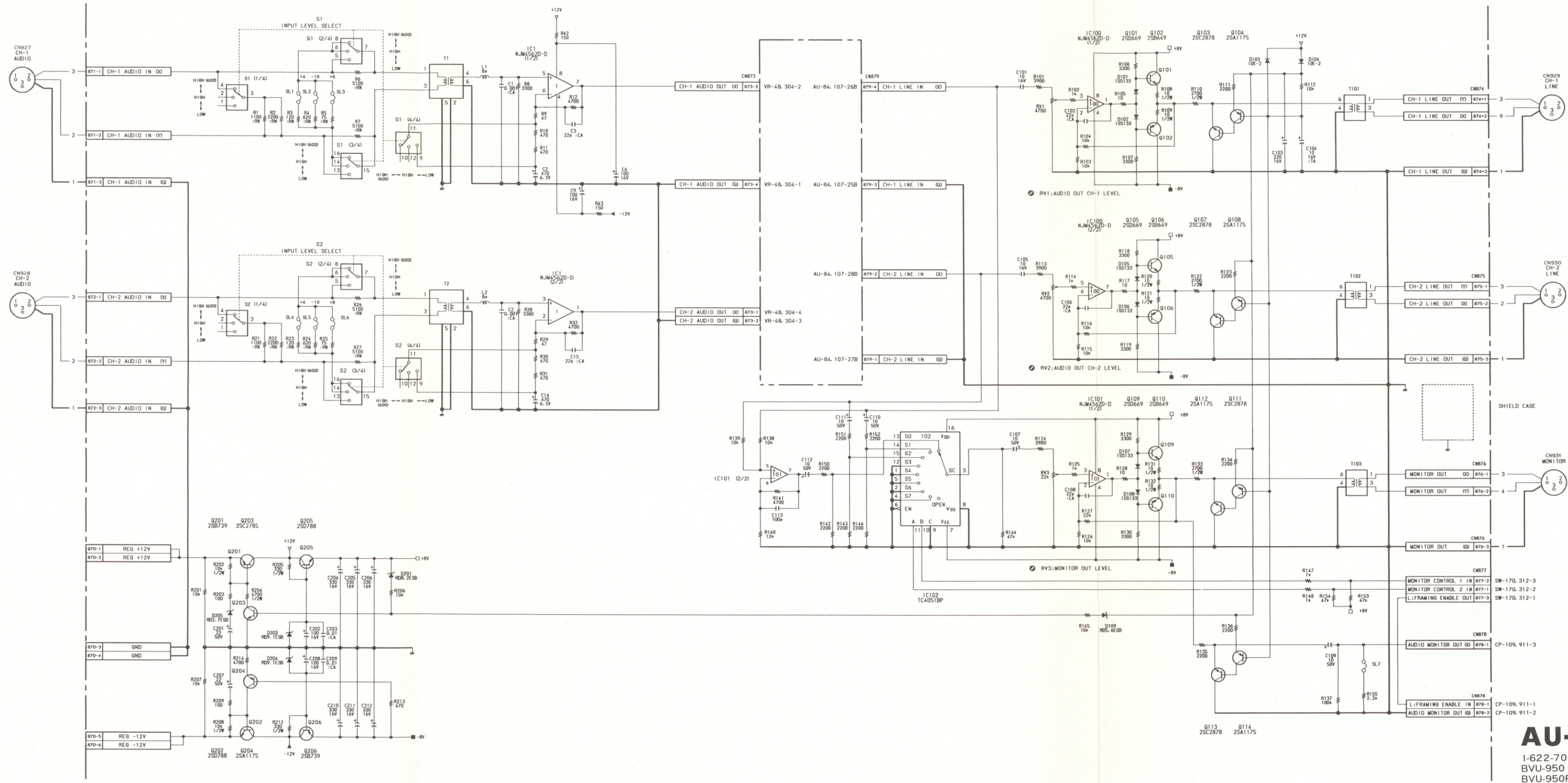


## SW-171; SELECT SWITCH

**SW-171**1-622-738-11(1)  
BVU-950  
BVU-950P

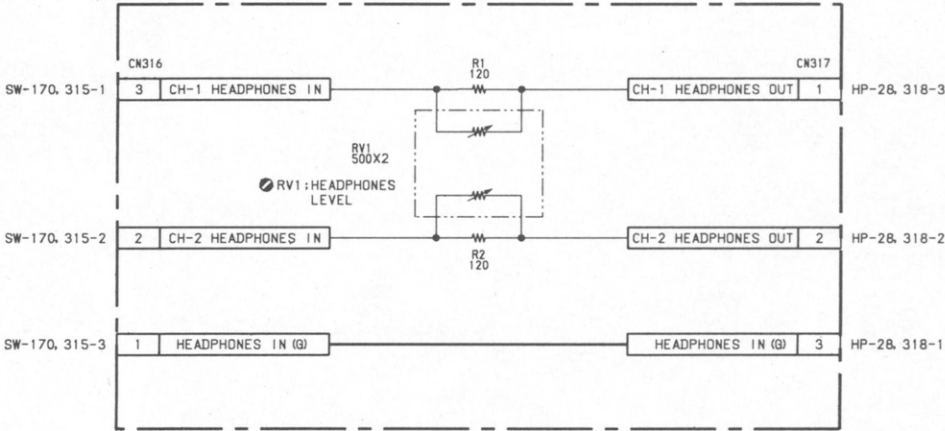


## AU-87: MIC/OUTPUT/MONITOR AMPLIFIER

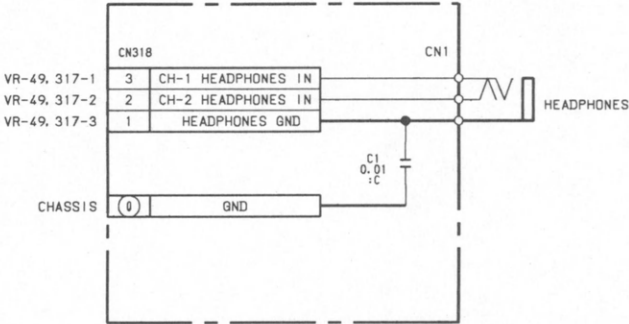




HP-28; HEADPHONES  
VR-49; HEADPHONES LEVEL CONTROL



**VR-49**  
I-622-731-11(1)  
BVU-950  
BVU-950P



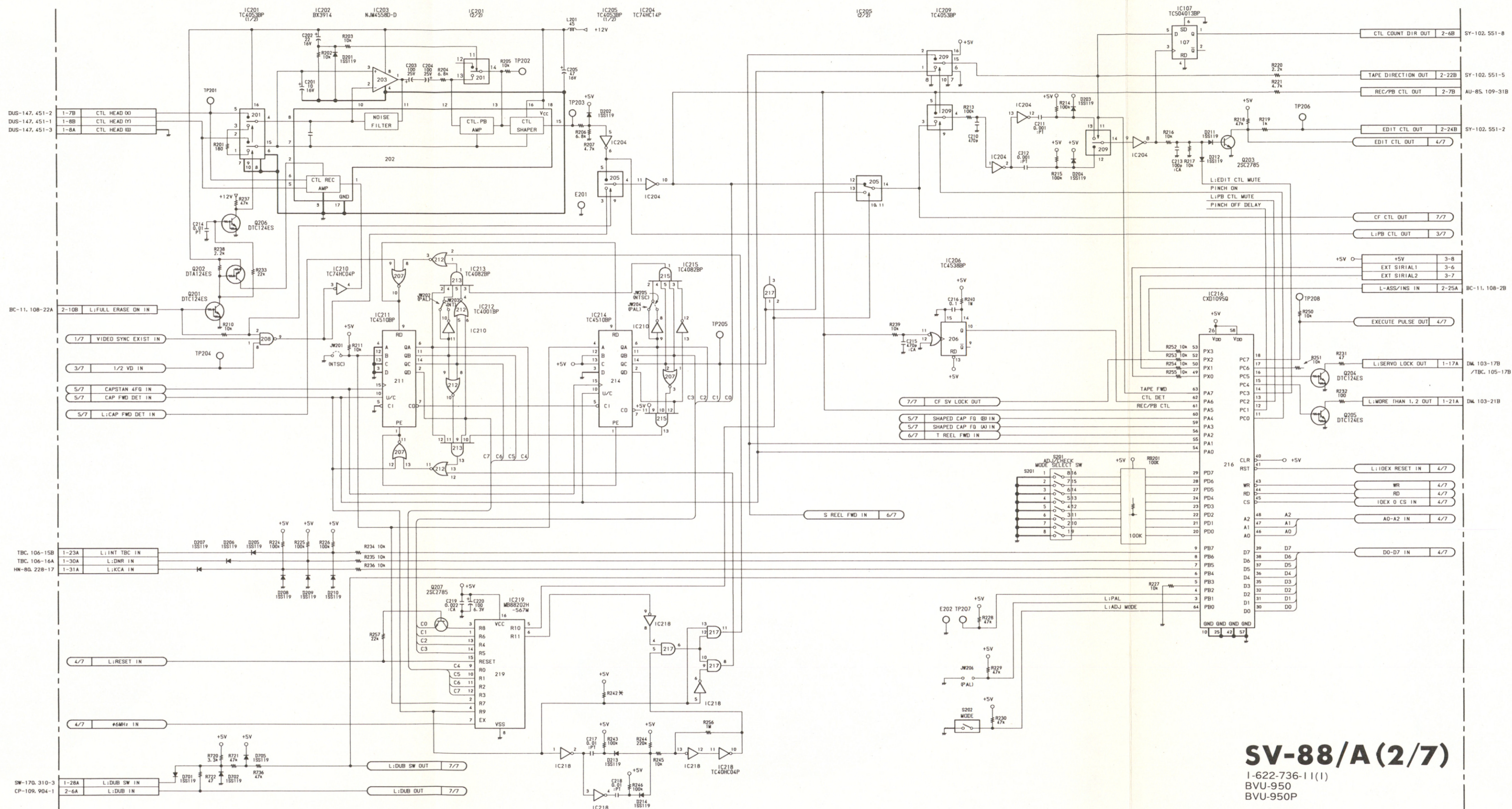
**HP-28**  
I-622-730-11(1)  
BVU-950  
BVU-950P







## SV-88(2/7); CTL REC/PB AMPLIFIER



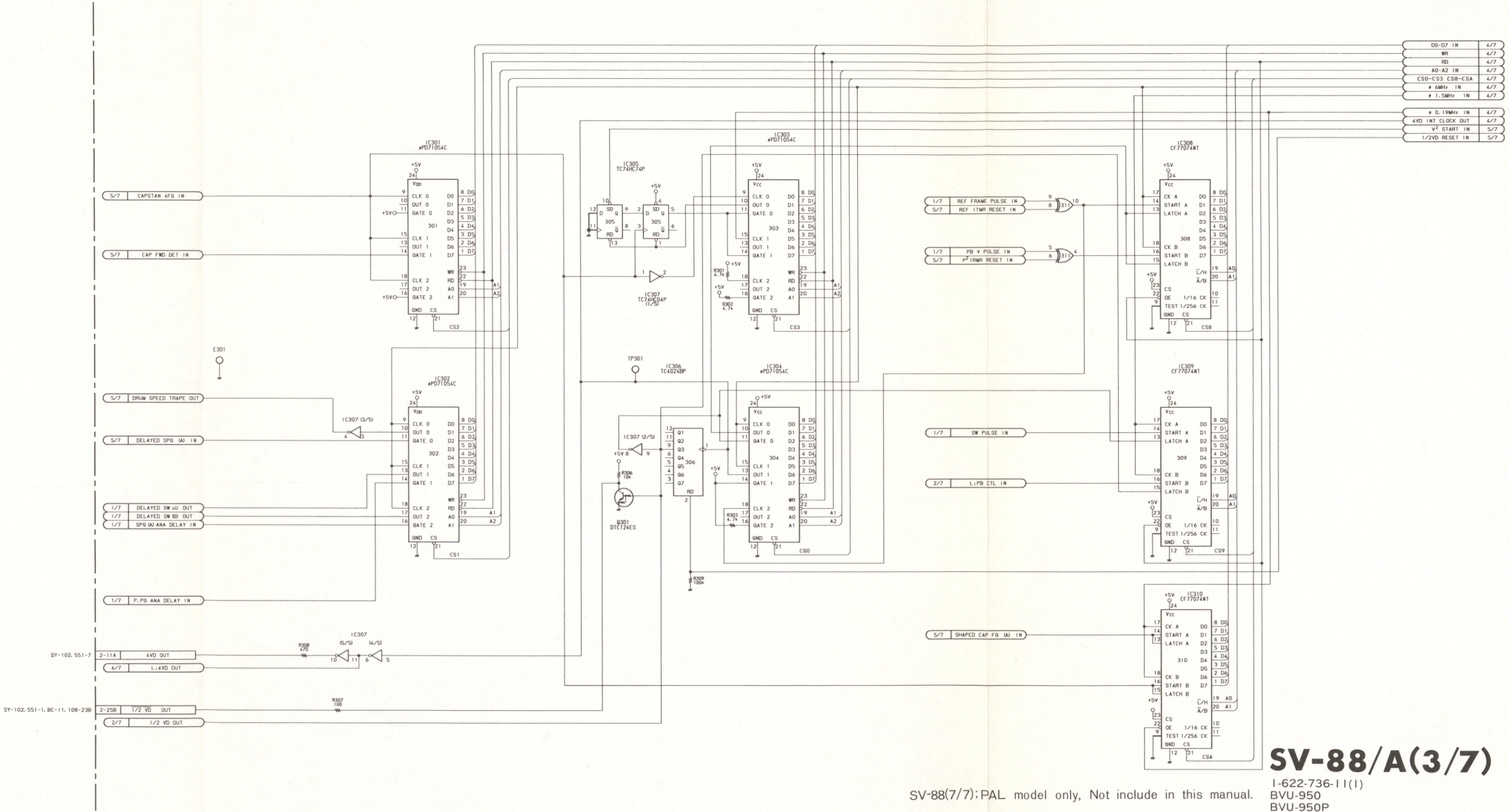
\*: NOT MOUNTED

**SV-88/A(2/7)**I-622-736-11(1)  
BVU-950  
BVU-950P

SV-88(7/7):PAL model only, Not include in this manual.



SV-88(3/7); SERVO TIMER/CLOCK COUNTER



SV-88(7/7);PAL model only, Not include in this manual.

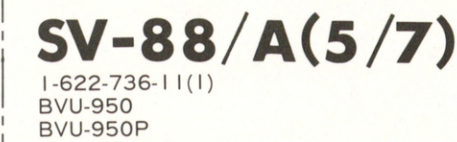


SV-88(7/7);PAL model only, Not include in this manual.





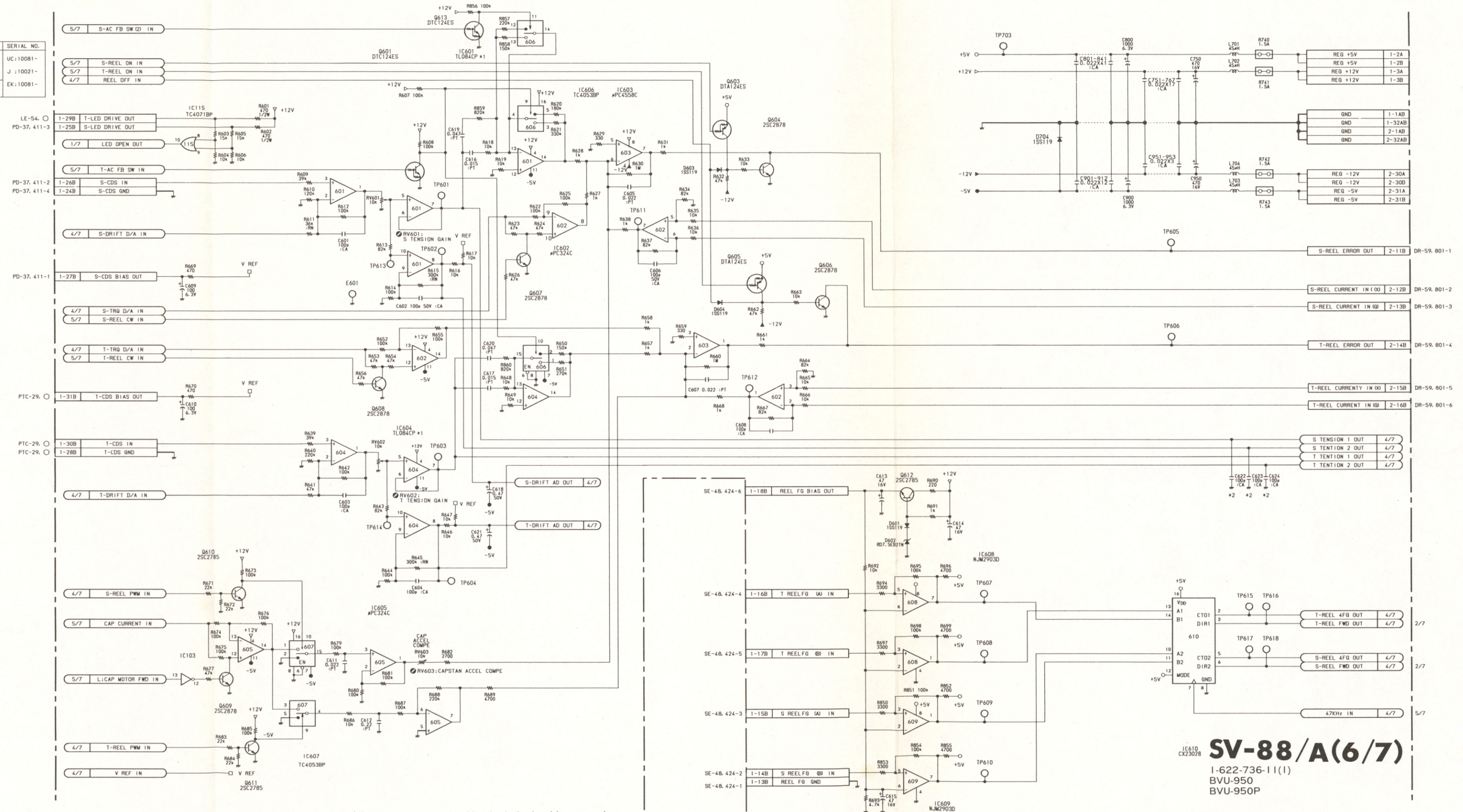
## 16-120



SV-88(7/7);PAL model only, Not include in this manual.



| MARK | CHANGE INFORMATION                     | SERIAL NO.             |
|------|--|------------------------|
| *1   | IC601.604 CHANGED<br>UPC324C → TL084CP | UC:10081-<br>J :10021- |
| *2   | C622-624 DELETED                       | EK:10081-              |



SV-88(7/7);PAL model only, Not include in this manual.

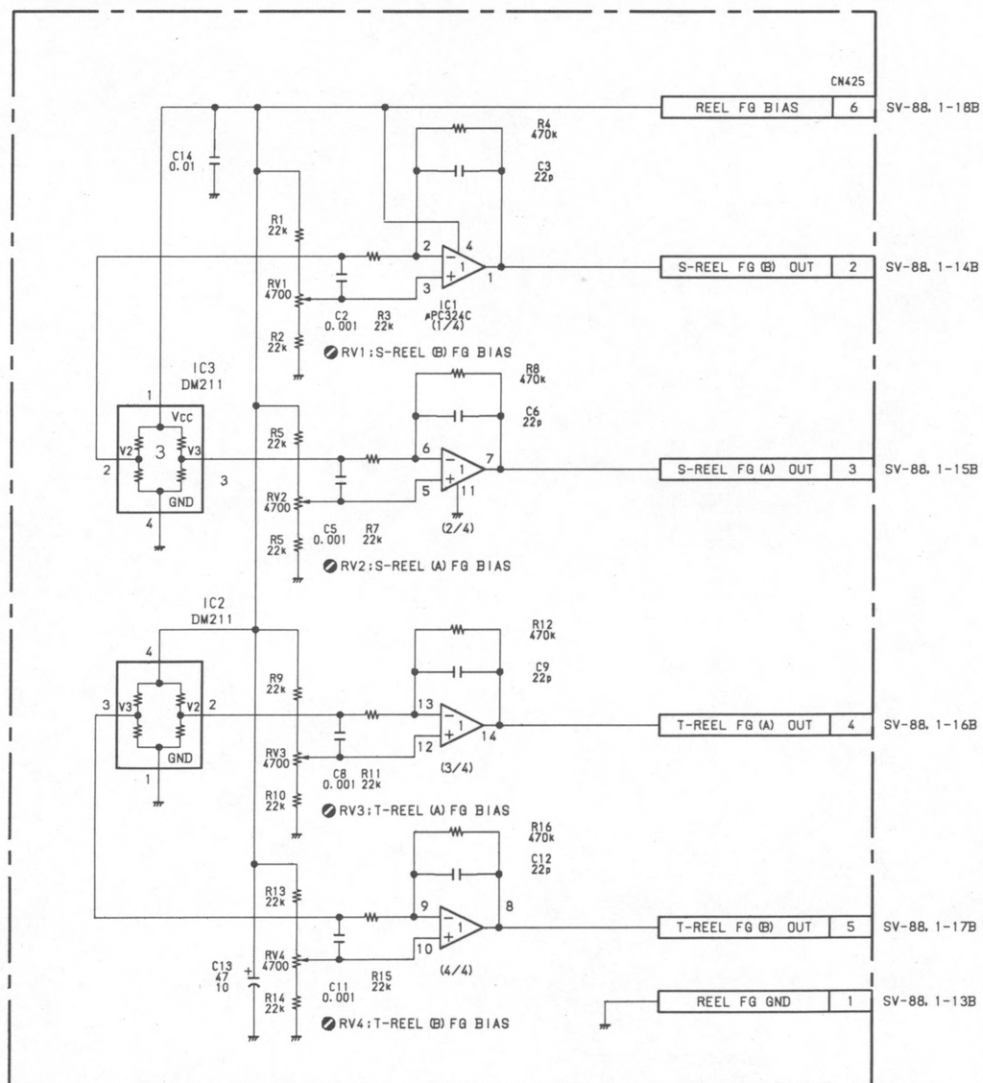
IC610  
CX23028

**SV-88/A(6/7)**

I-622-736-11(1)  
BVU-950  
BVU-950P



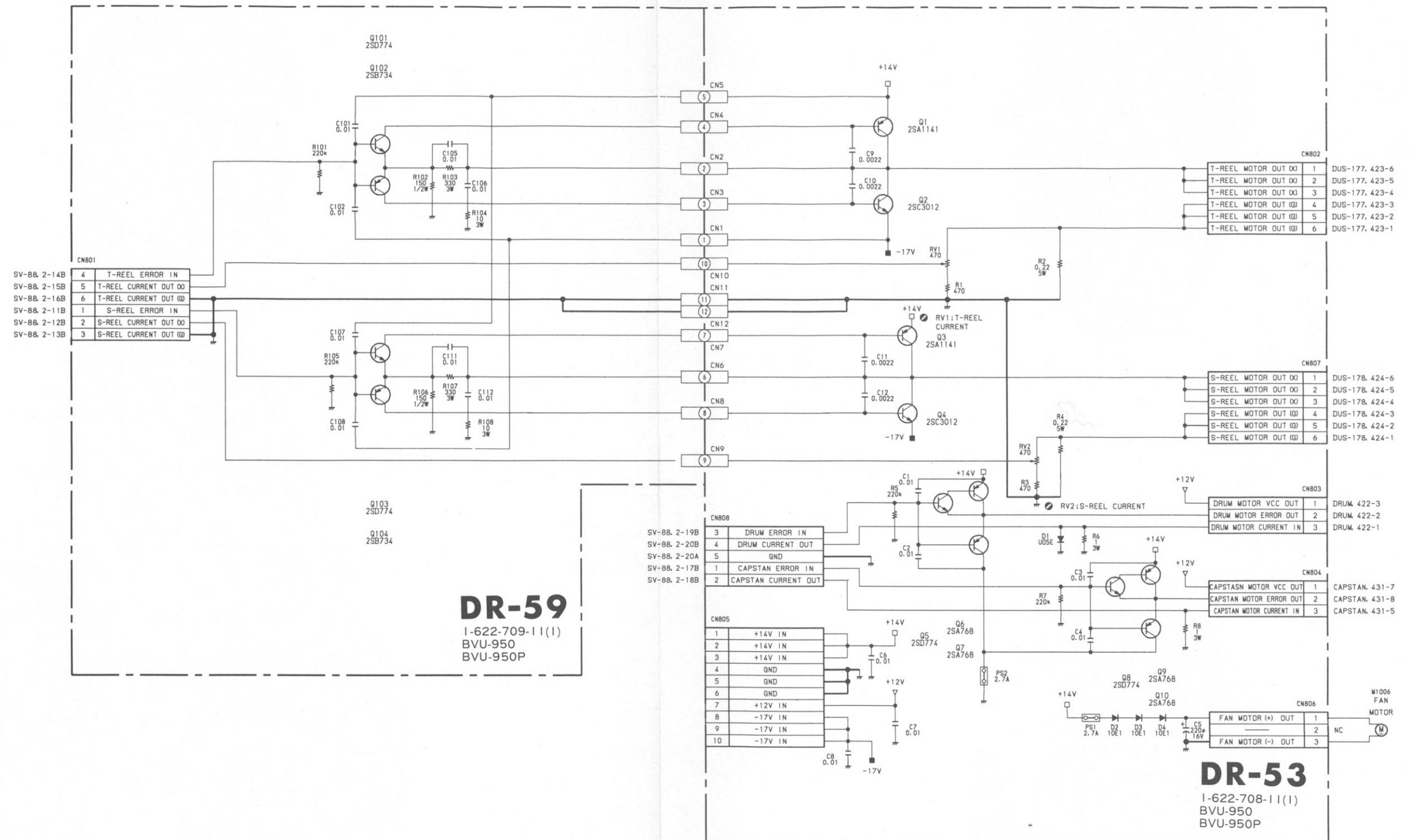
## SE-48; REEL ROTATION DETECTOR

**SE-48**

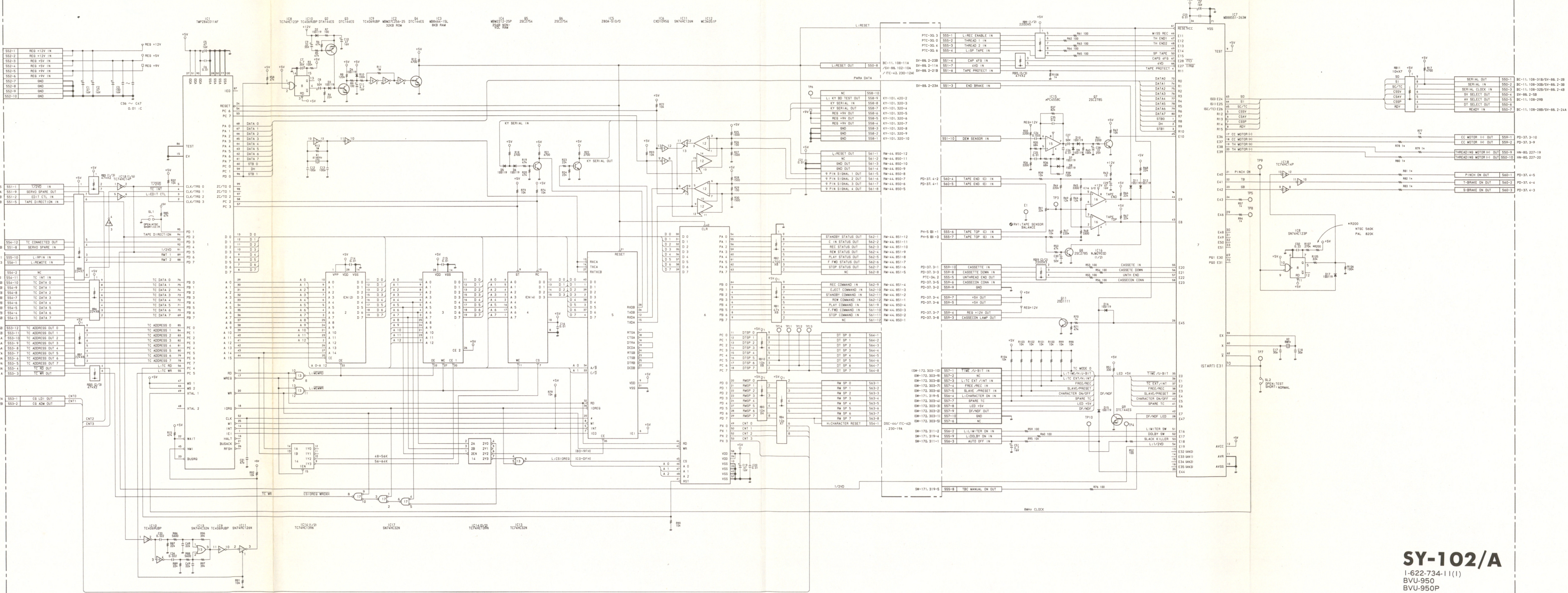
1-622-735-11(1)  
 BVU-950  
 BVU-950P



DR-53; REEL/CAPSTAN/DRUM MOTOR DRIVE  
DR-59; REEL MOTOR DRIVE







**SY-102/A**  
1-622-734-11(1)  
BVU-950  
BVU-950P



A



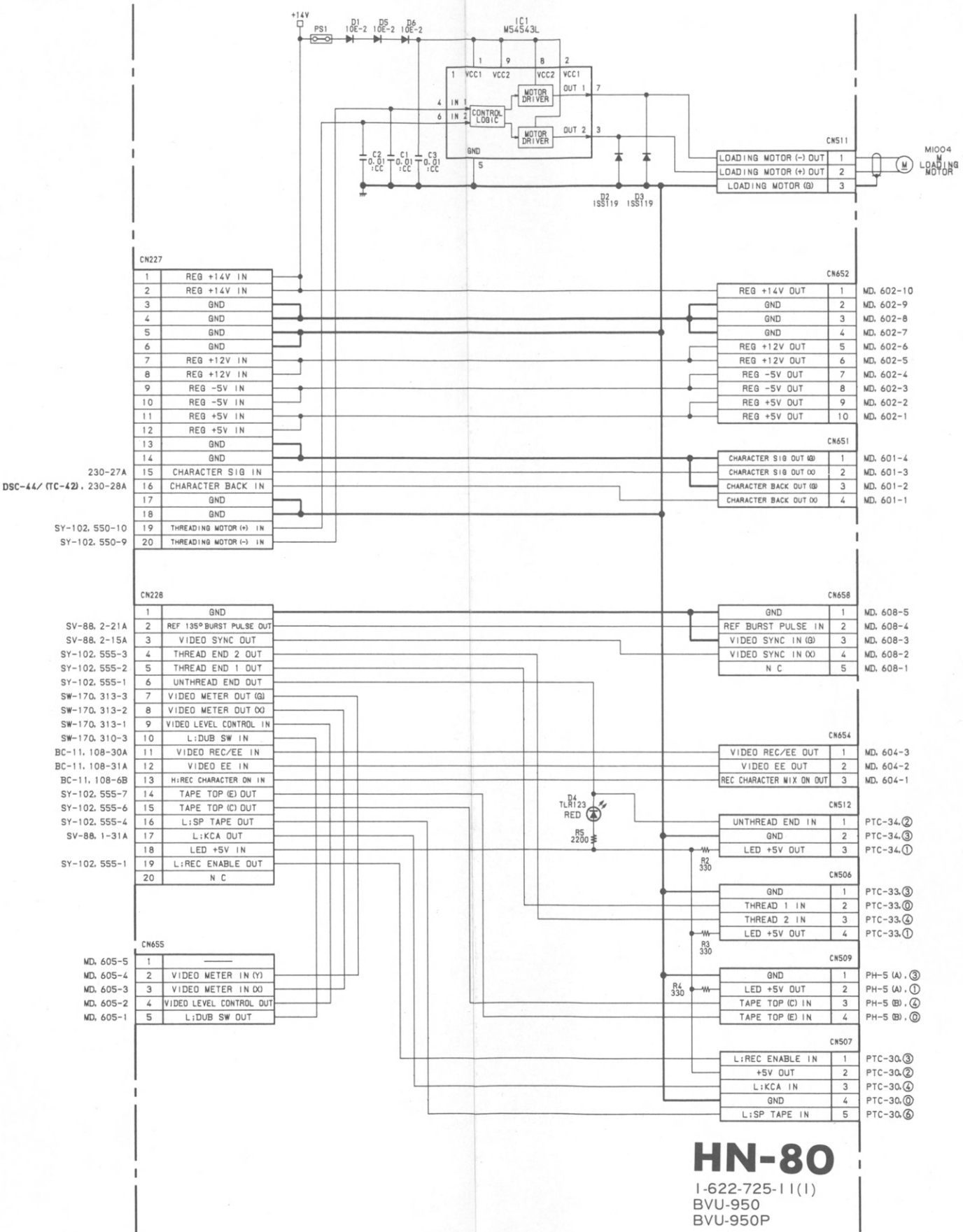
0





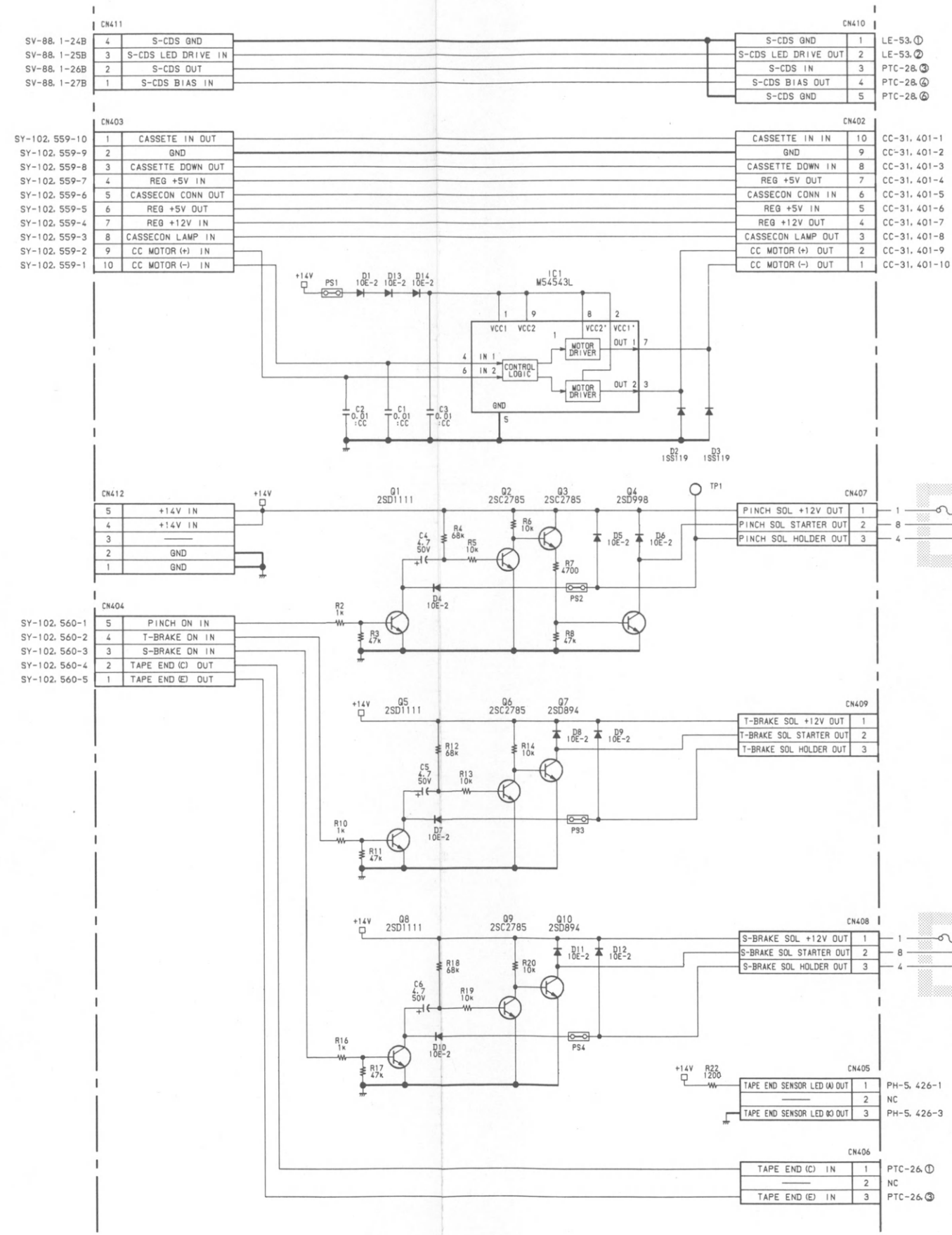
HN-80; THREADING MOTOR DRIVER

HN-80 HN-80





PD-37; CASSETTE-UP COMPARTMENT MOTOR DRIVER /SOLENOID DRIVER



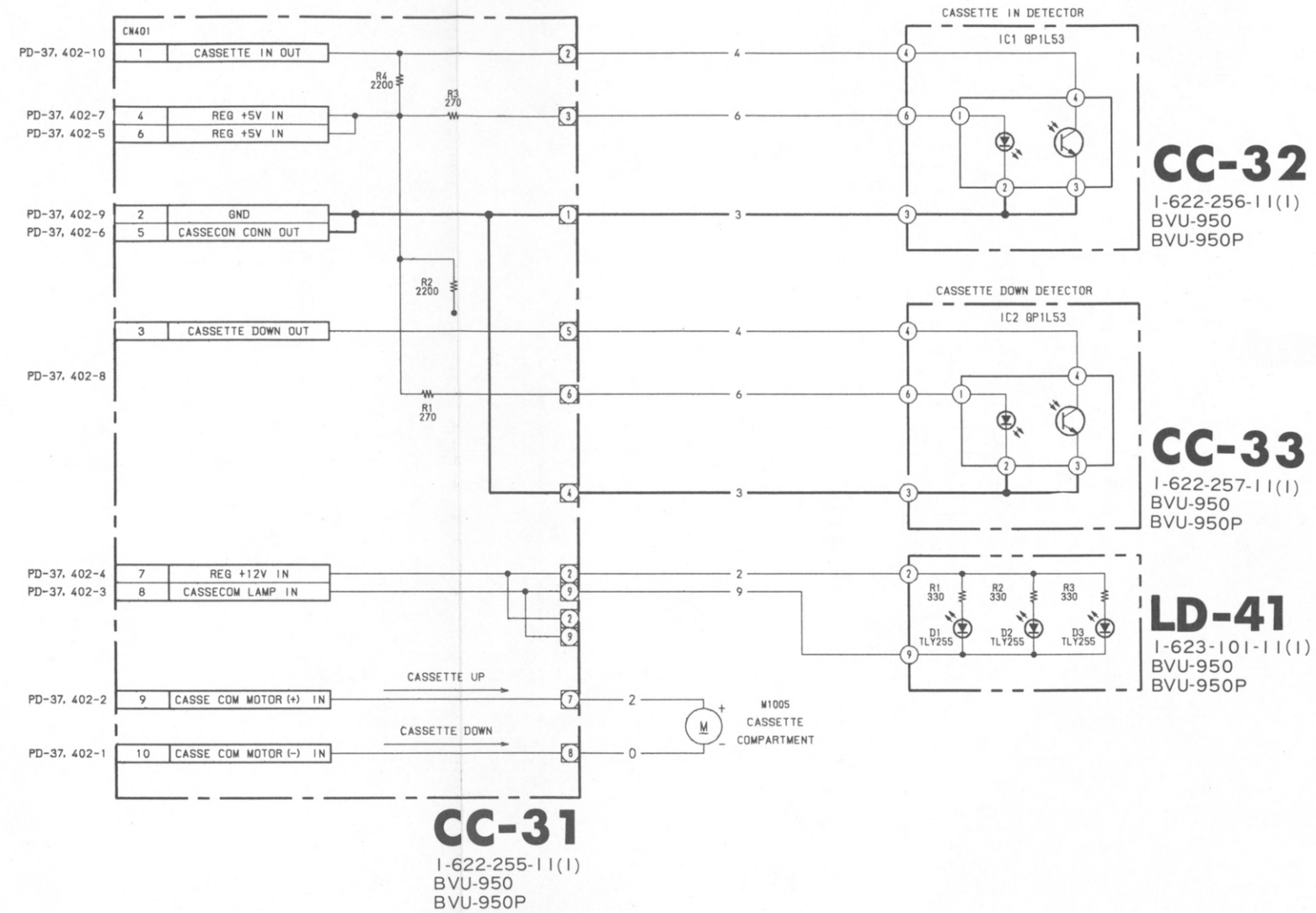
NOTE:

The shaded and ⚠-marked components are critical to safety.  
Replace only with same components as specified.

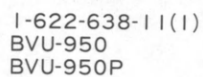
**PD-37**  
1-622-723-11(1)  
BVU-950  
BVU-950P



CC-31; CASSETTE COMPARTMENT DRIVER  
 CC-32; CASSETTE IN DETECTOR  
 CC-33; CASSETTE DOWN DETECTOR  
 LP-41; CASSETTE COMPARTMENT LIGHT

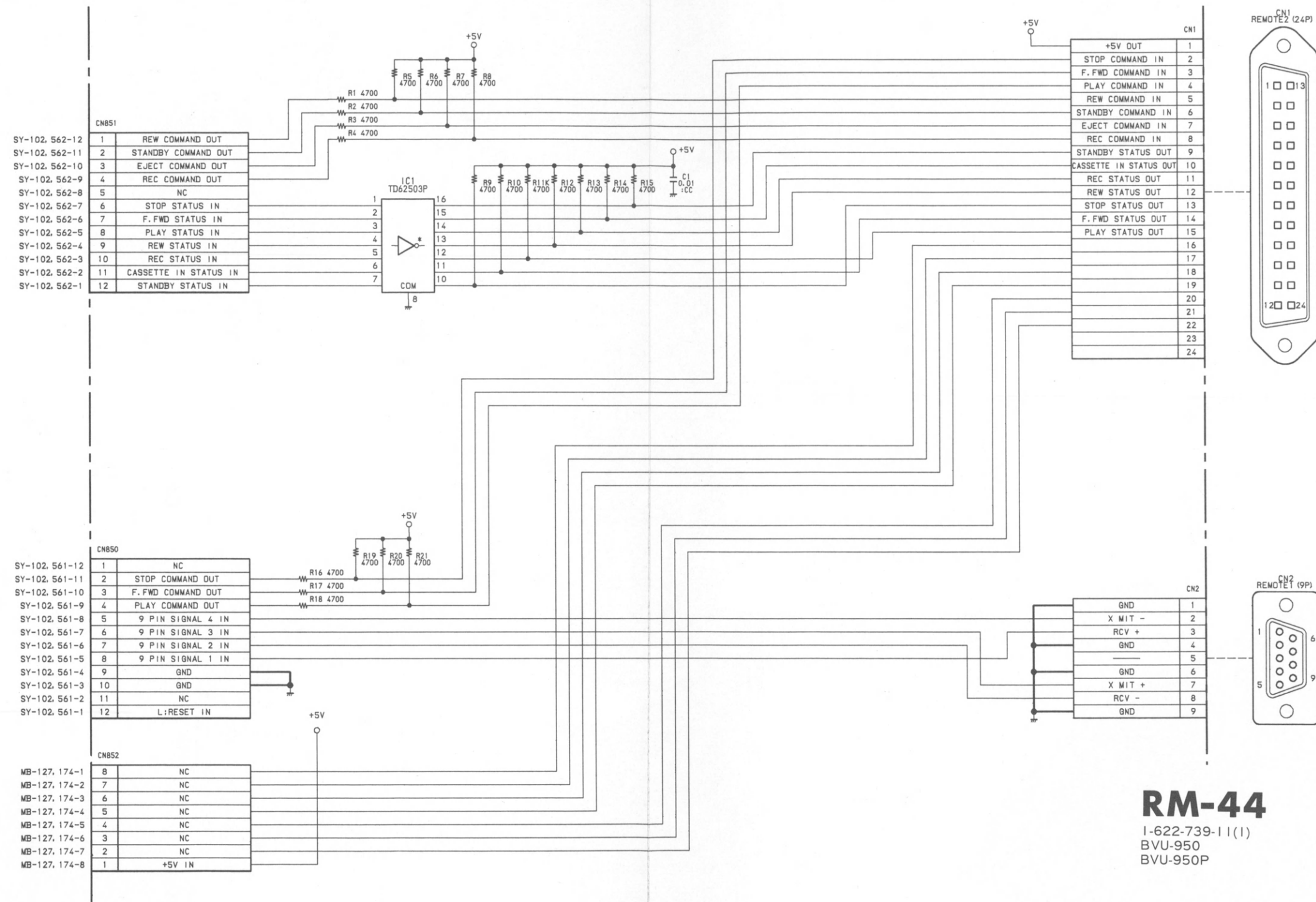






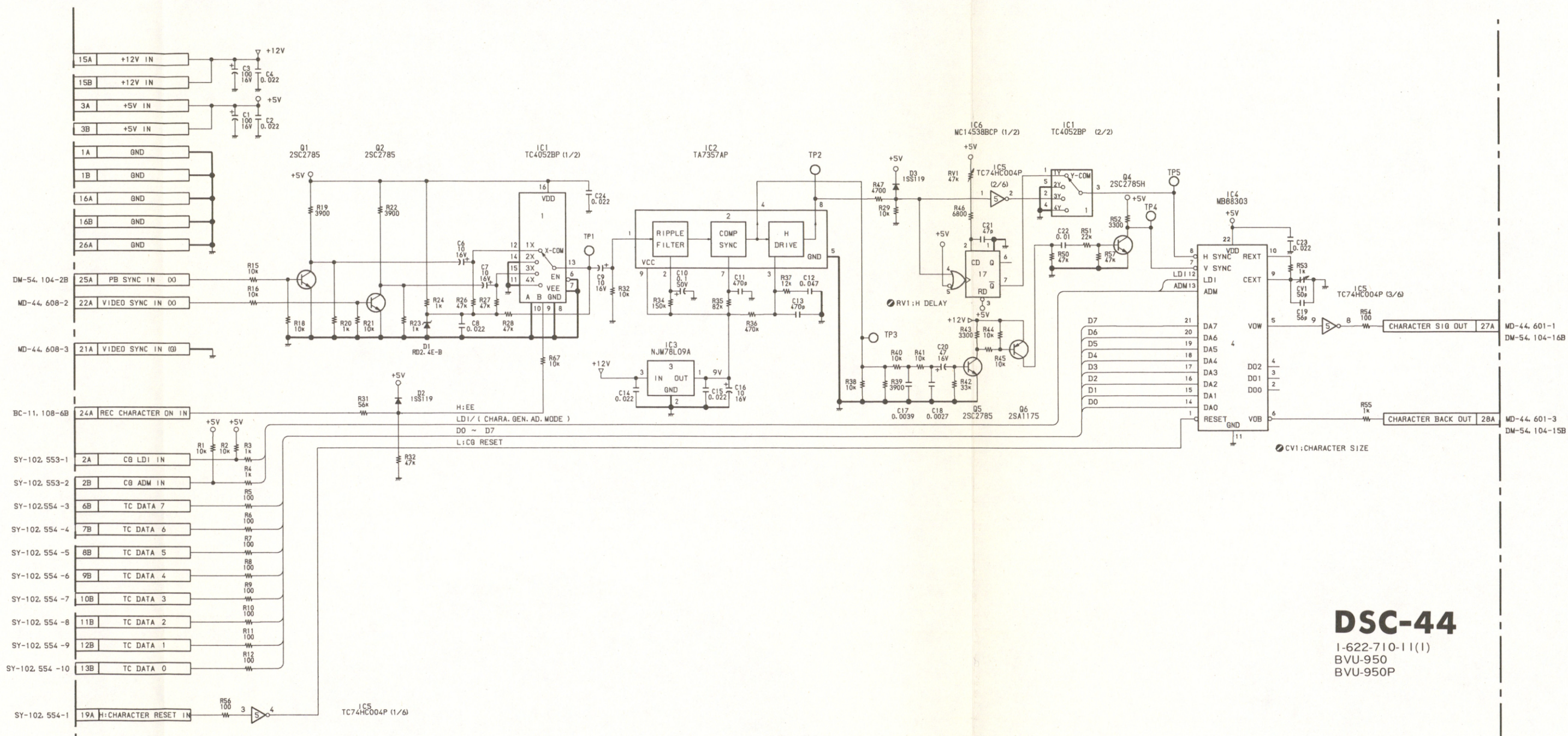


RM-44; REMOTE CONTROL



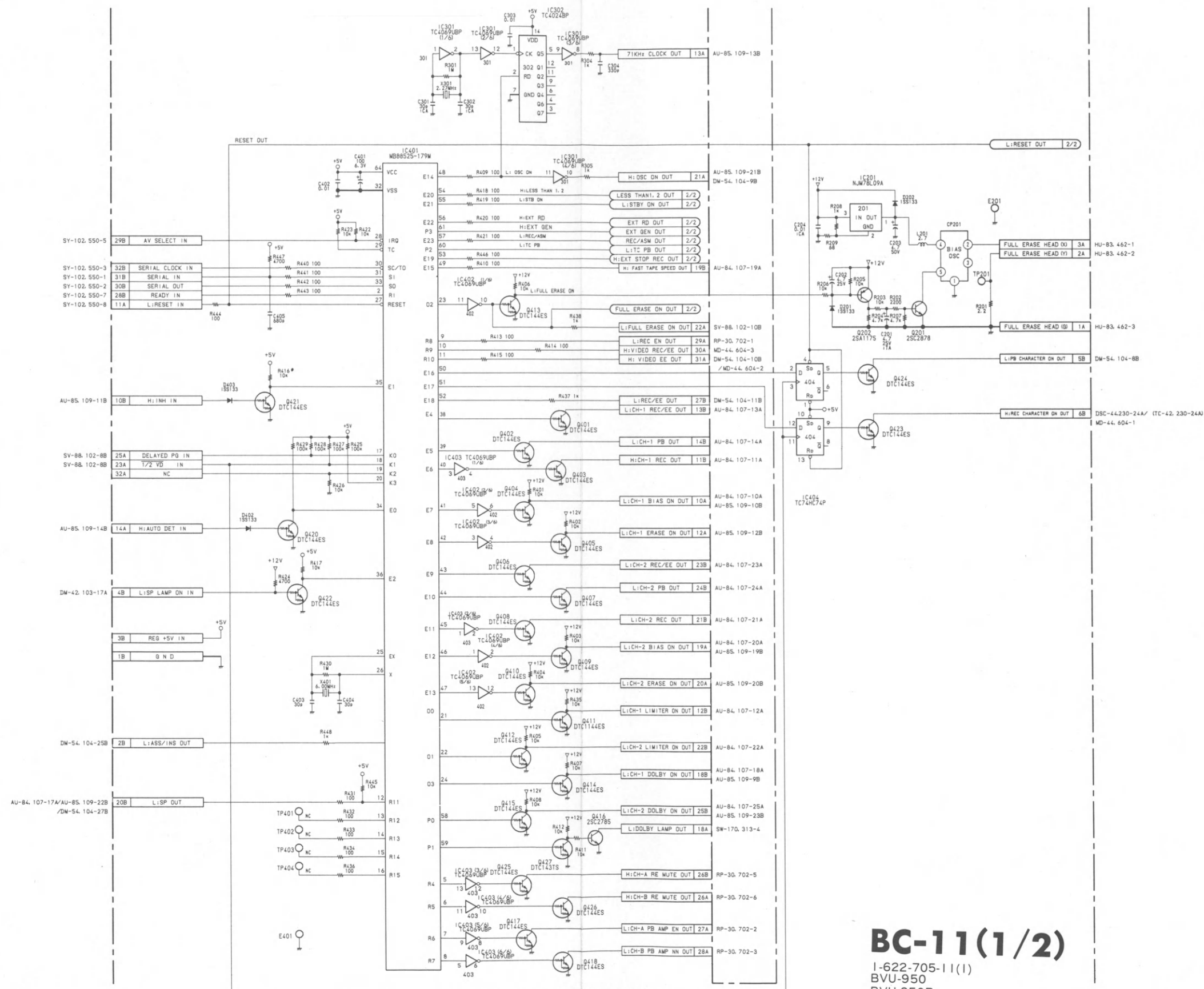


## DSC-44; CHARACTER GENERATOR

**DSC-44**1-622-710-11(1)  
BVU-950  
BVU-950P



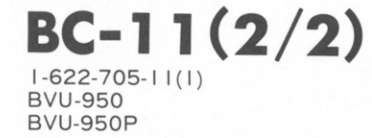
BC-11(1/2); VIDEO/AUDIO TIMING CONTROL  
FULL ERASE OSCILLATOR



**BC-11(1/2)**  
I-622-705-11(1)  
BVU-950  
BVU-950P



## 5

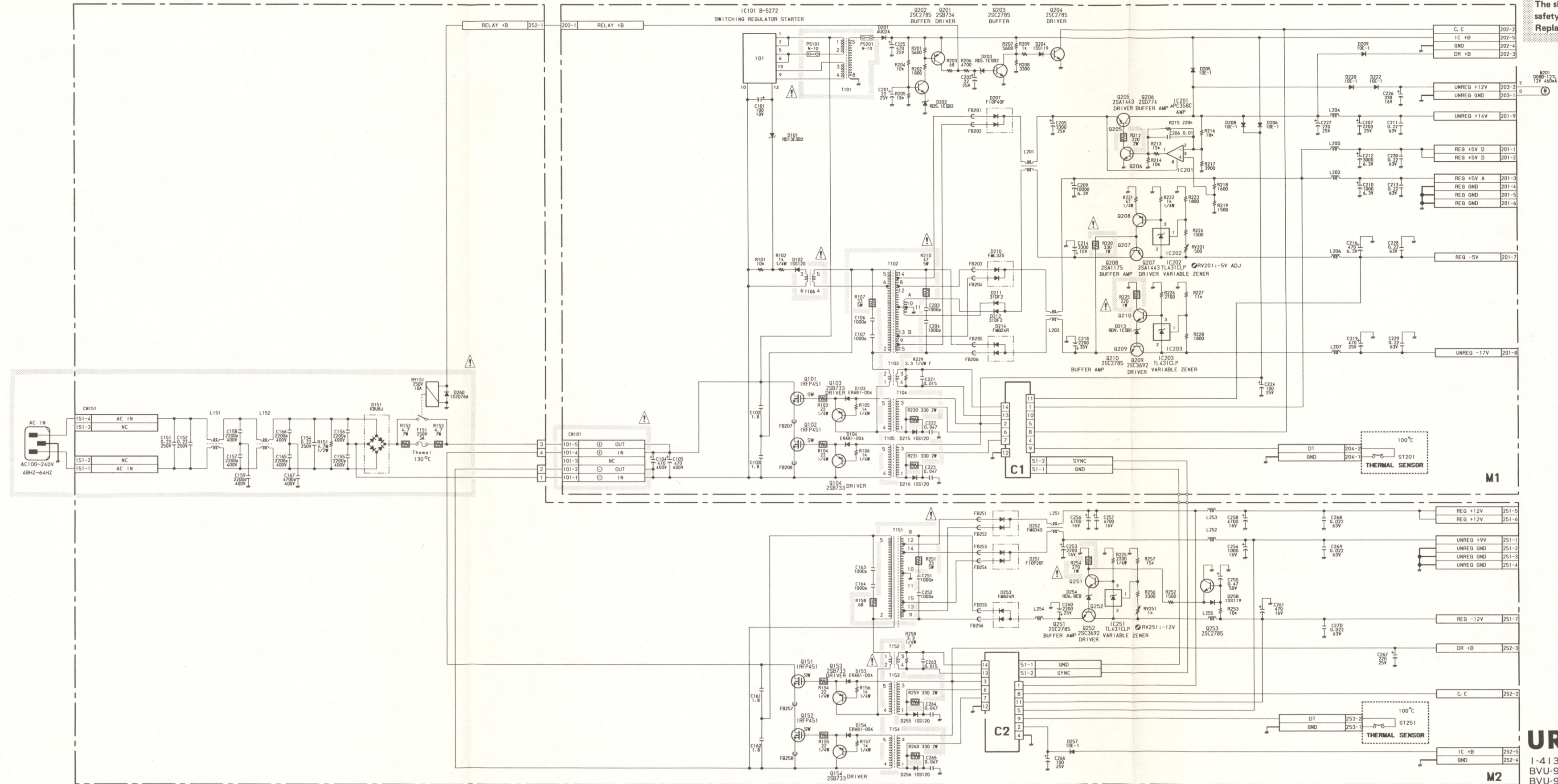









M1  
M2



The shaded and -marked components are critical to safety.

Replace only with same components as specified.

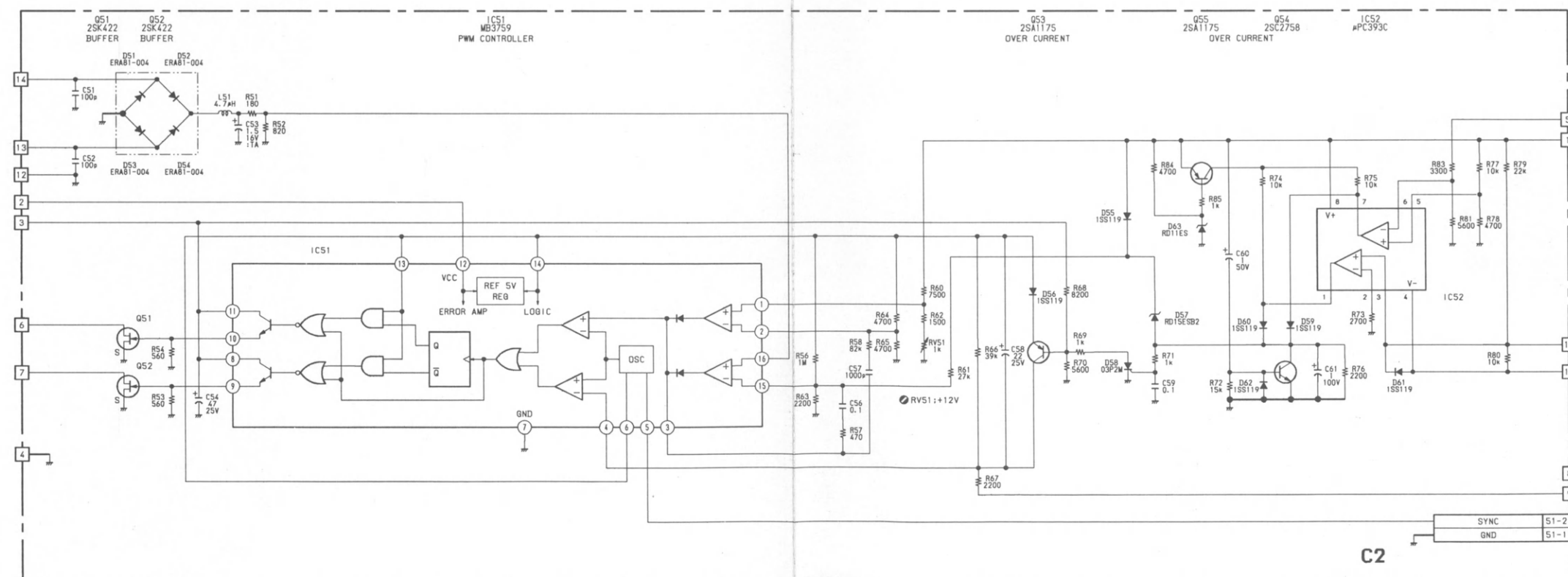
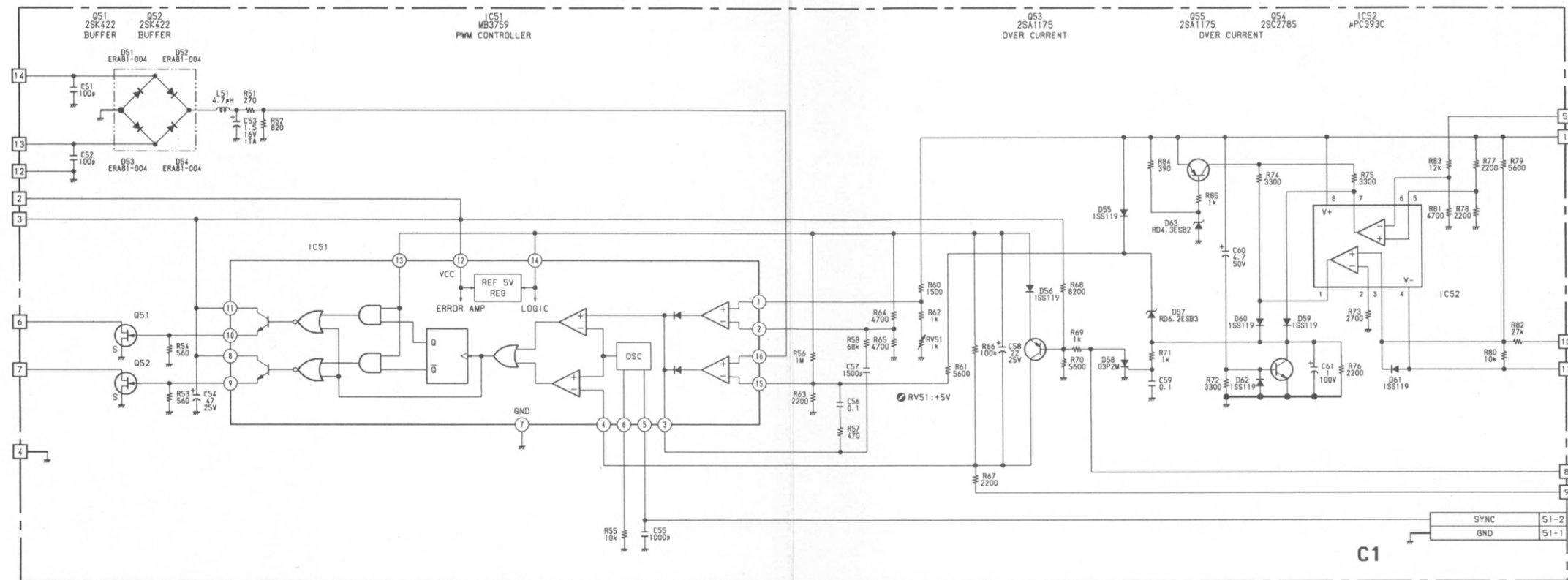
1-413-307-11(1)  
BVU-950  
BVU-950P



## UR-21:SWITCHING REGULATOR

C1

C2

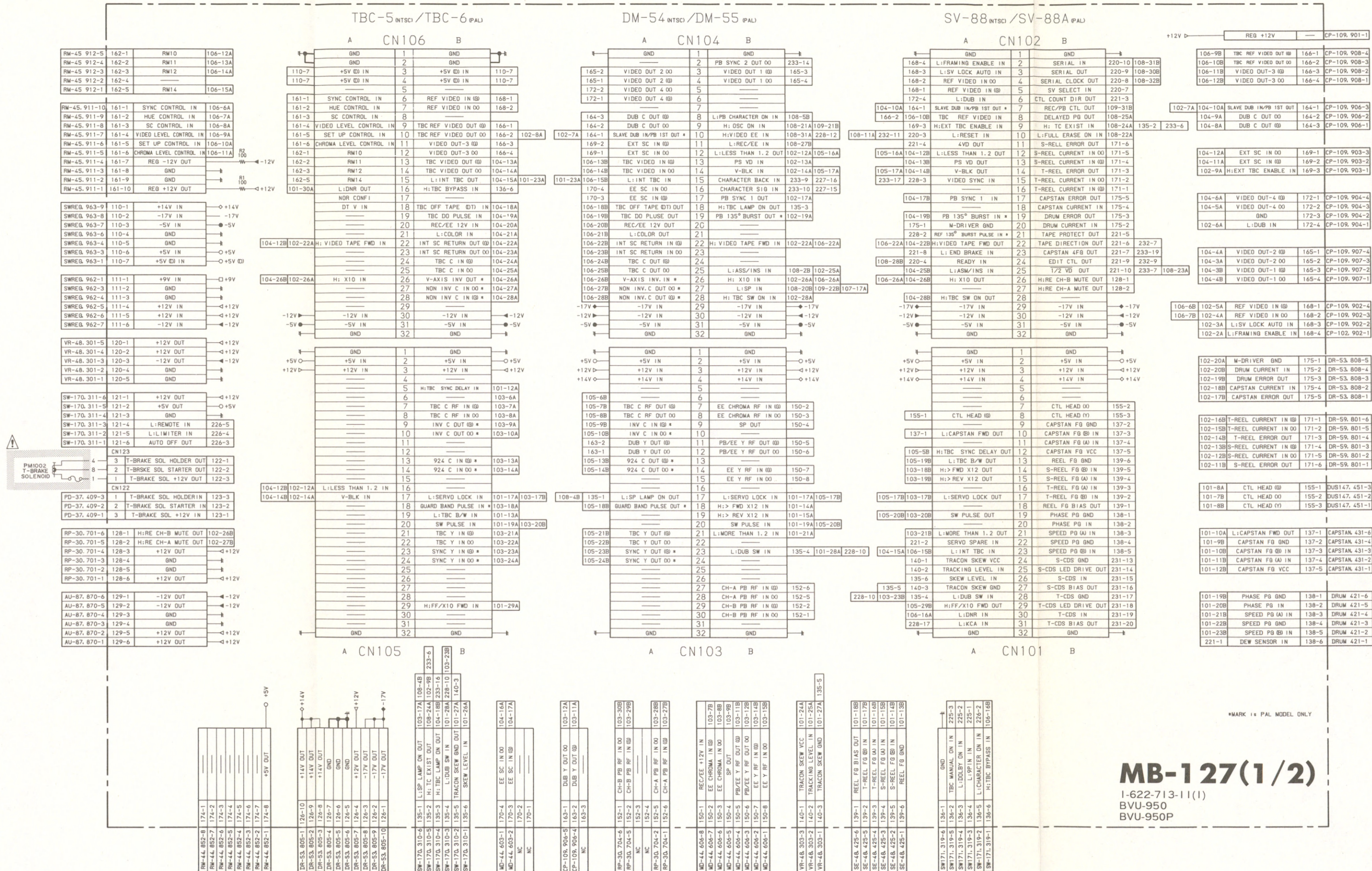


UR-21(2/2)


I-413-307-11(1)  
BVU-950  
BVU-950P



## MB-127(1/2); MOTHER BOARD



**NOTE:**

The shaded and -marked components are critical to safety.  
Replace only with same components as specified.

**MB-1 27(1/2)**

1-622-713-11(1)  
BVU-950  
BVU-950P

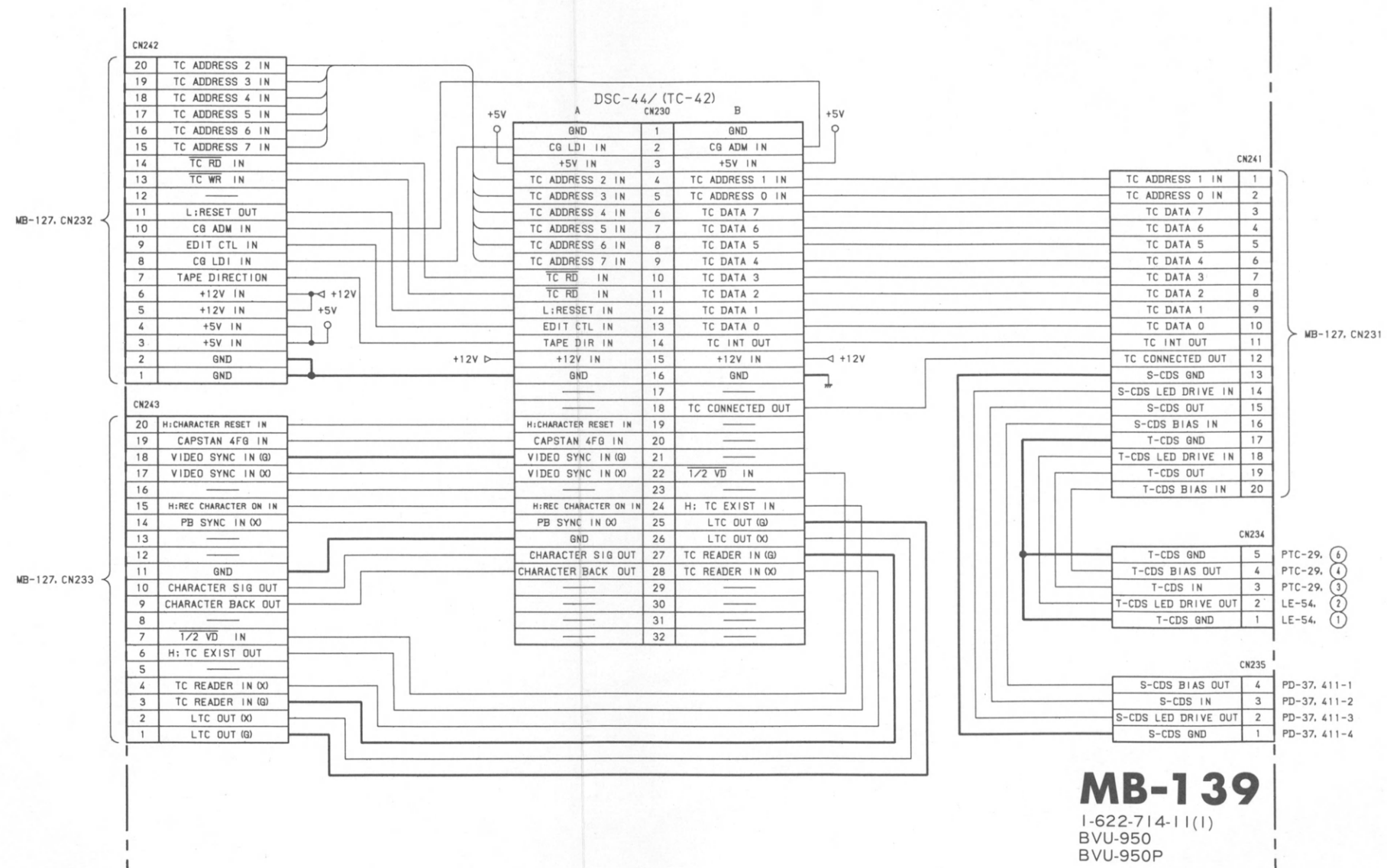


**MB-1 27(2/2)**

\* MARK  
PAL MODEL ONLY

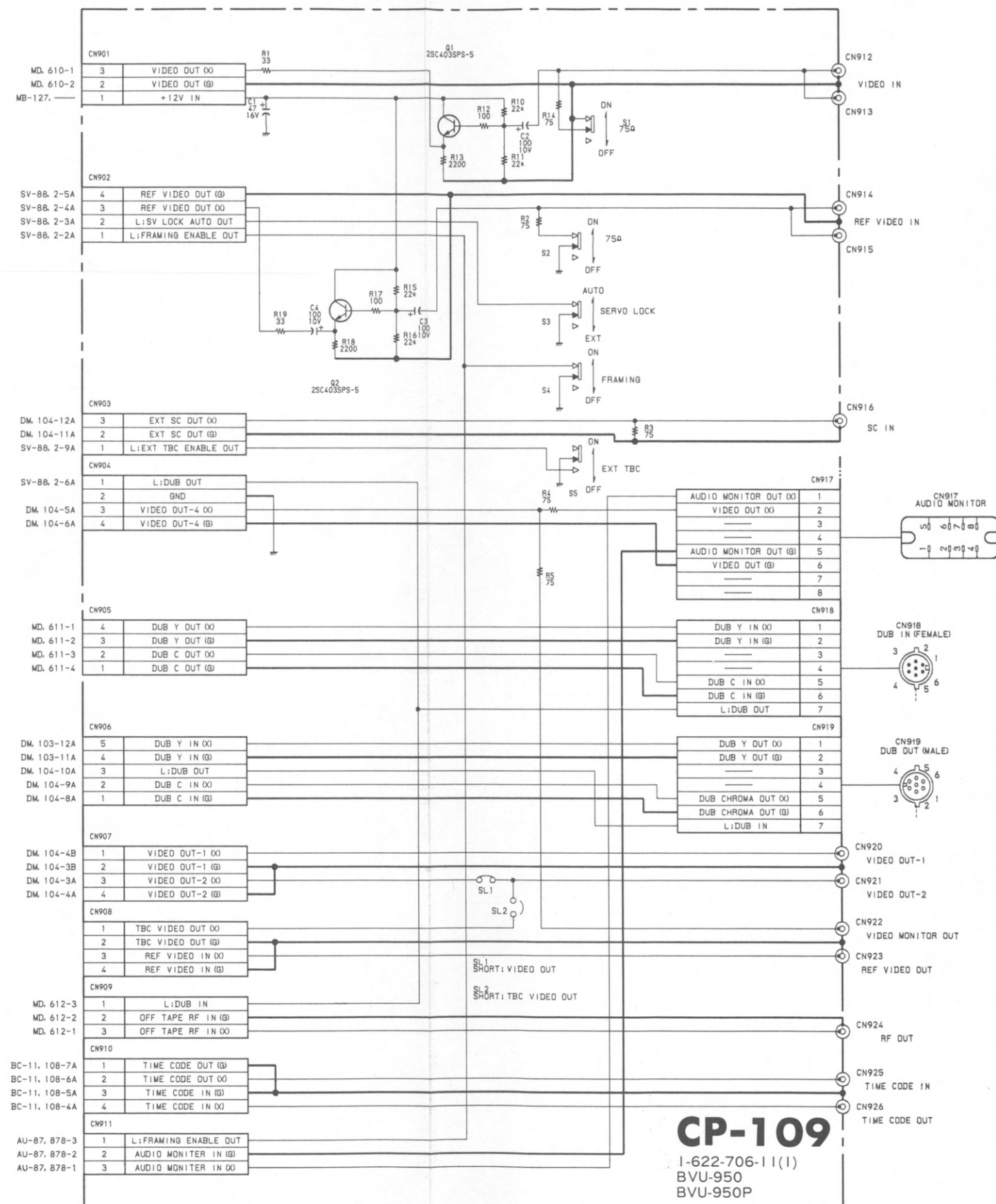


## MB-139; SUB MOTHER FOR TC

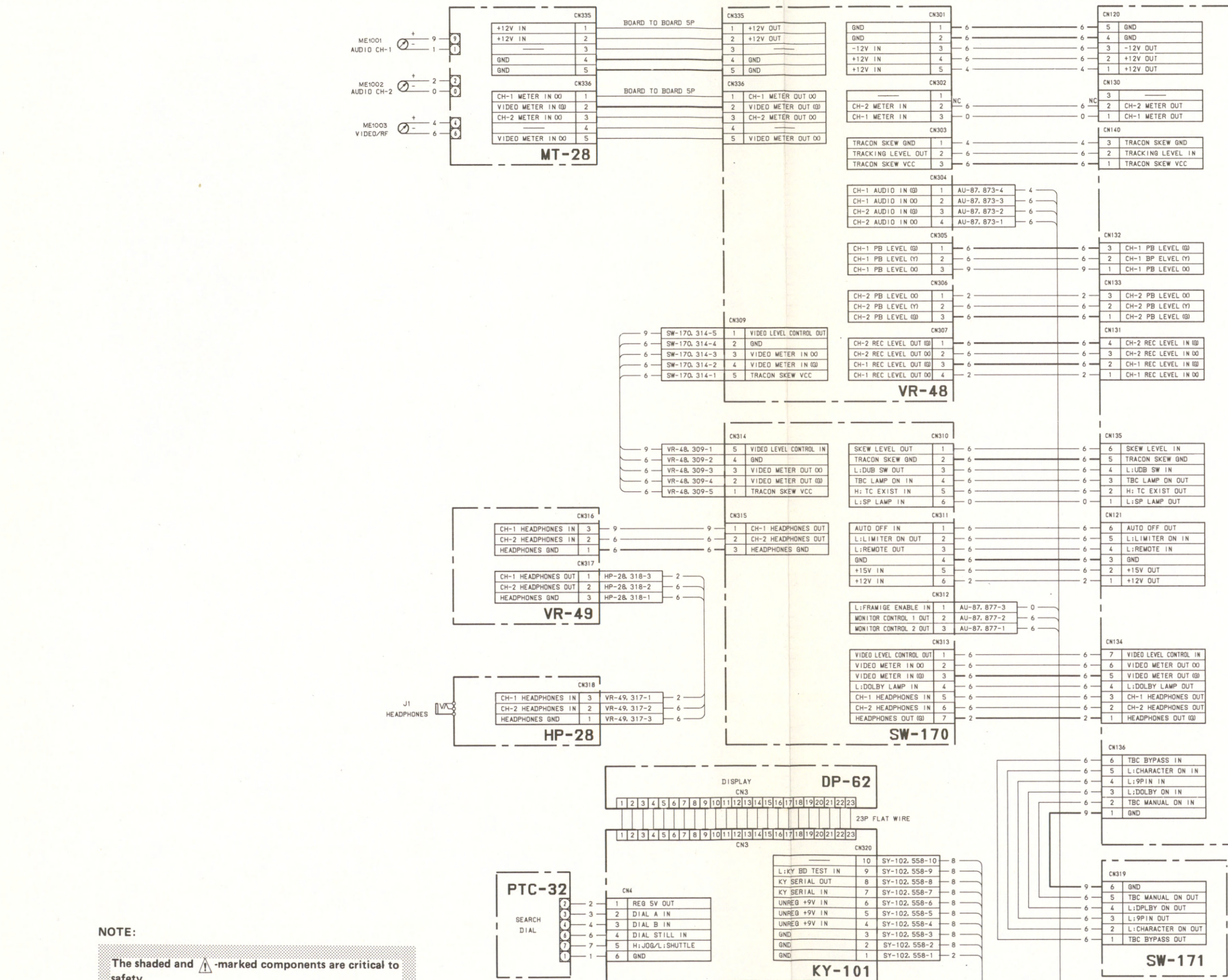




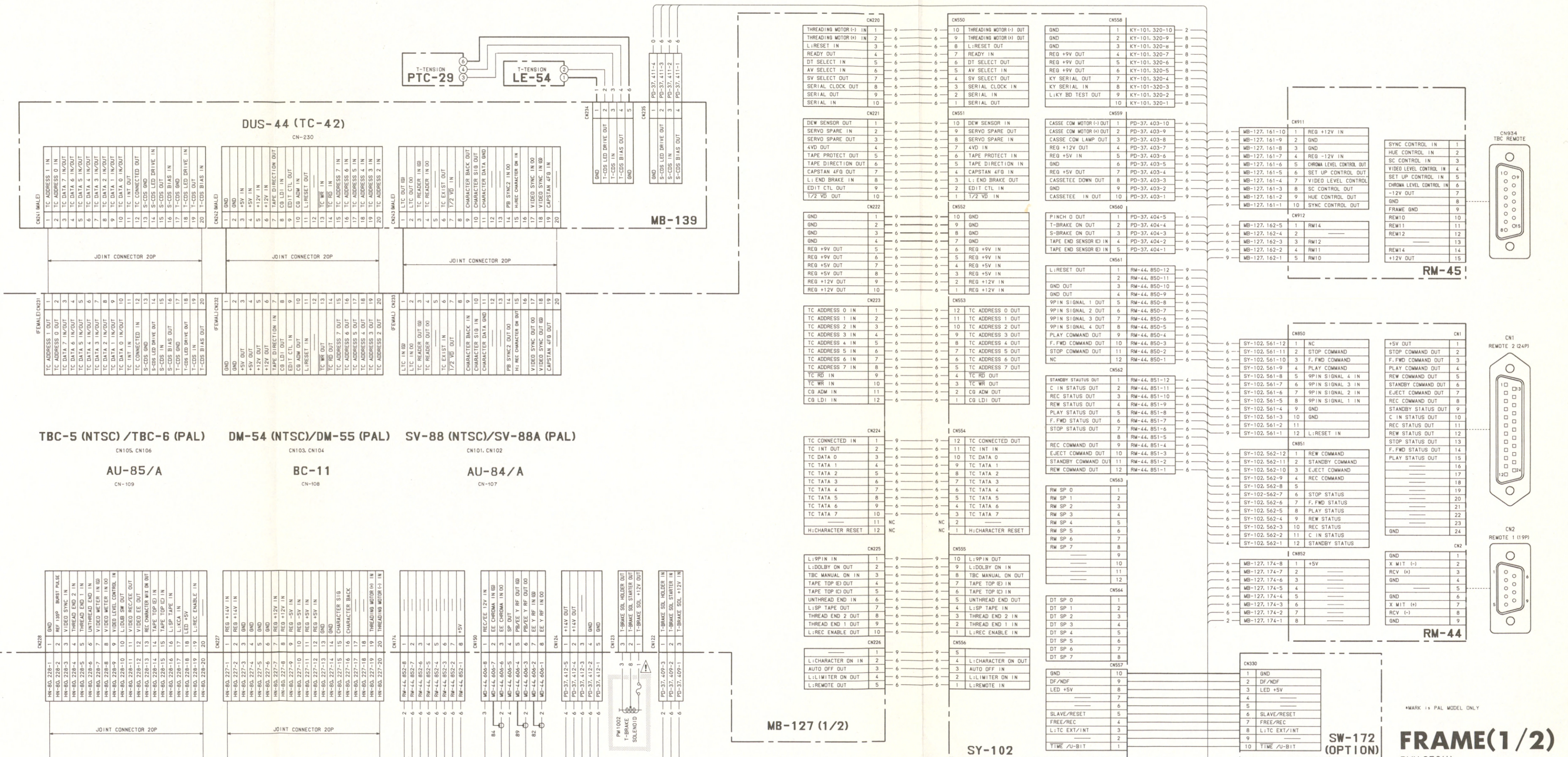
## CP-109; CONNECTOR PANNEL







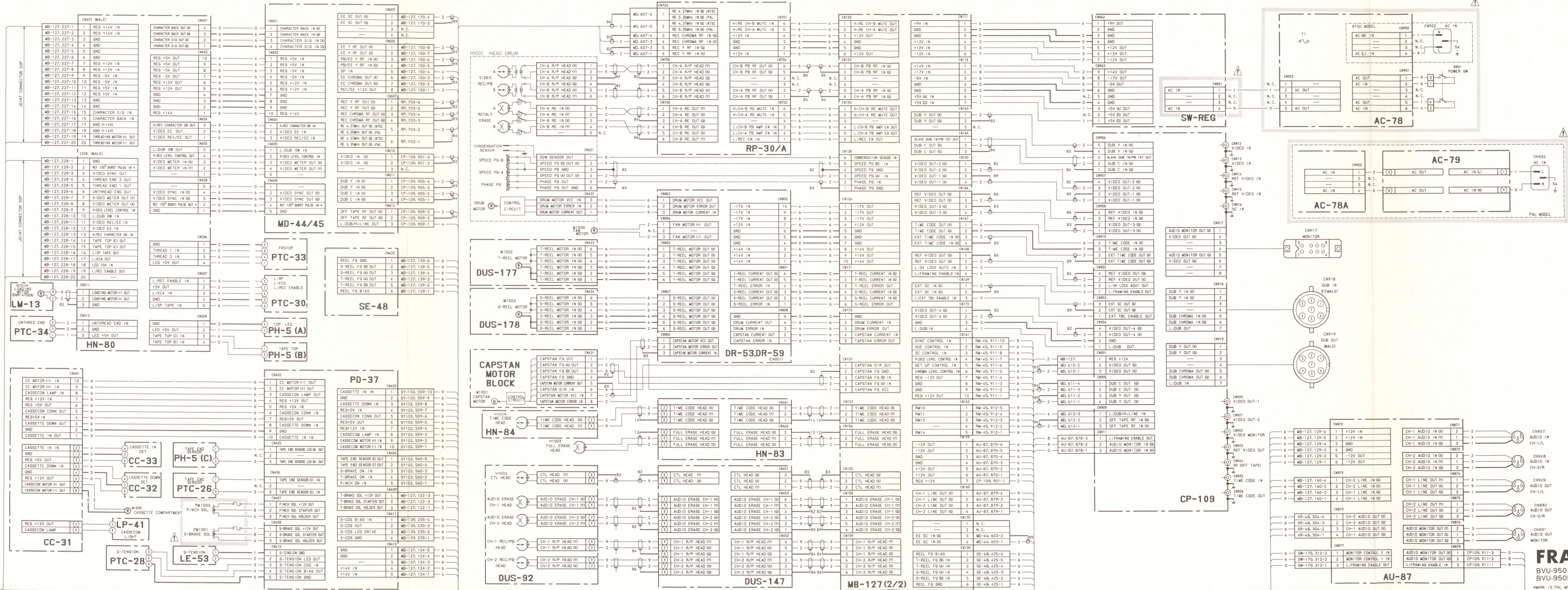
NOTE:  
The shaded and marked components are critical to safety.  
Replace only with same components as specified.




\*MARK 1: PAL MODEL ONLY

**FRAME(1/2)**  
BVU-950(1)  
BVU-950P(1)





**NOTE:**

The shaded and -marked components are critical to safety.  
Replace only with same components as specified.

**FRAME(2/2)**

BVU-950 (I)  
BVU-950P(I)  
\*MARK IS PAL MODEL ONLY



SECTION 17  
PRINTED WIRING BOARDS

The circuit information is provided below.

| System | Board   | Circuit function                     |
|--------|---------|--------------------------------------|
| VIDEO  | RP-30   | RF REC/PB /rotary erase              |
|        | MD-44   | Y/C modulator                        |
|        | DM-54   | Y/C demodulator                      |
|        | SW-170  | Video level MANU/AUTO select         |
|        | VR-48   | Video level control                  |
|        | MT-28   | Video level meter                    |
| AUDIO  | AU-83   | CH-1 REC/PB /DOLBY processor         |
|        | DUS-71  | Variable coil                        |
|        | AU-84   | CH-2 REC/PB                          |
|        | DUS-71  | Variable coil                        |
|        | HN-77   | Junction board                       |
|        | AU-85   | DOLBY auto detector, bias oscillator |
|        | SW-171  | DOLBY ON/OFF switch                  |
|        | AU-87   | Mic/output/monitor amplifier         |
|        | VR-48   | REC/PB level control                 |
|        | MT-28   | Audio level meter                    |
|        | VR-49   | Headphones level control             |
|        | HP-28   | Headphones                           |
|        | DUS-92  | Audio head                           |
|        | DUS-147 | Junction board for audio head        |
|        | BC-11   | Full erase oscillator                |
|        | SW-170  | Audio monitor select                 |
| SERVO  | SV-88   | Drum/capstan/reel servo              |
|        | SE-48   | Reel rotation detector               |
|        | DR-53   | Motor driver for reel/capstan/drum   |
|        | DR-59   | Motor driver for reel                |
|        | PTC-28  | S-tension CDS                        |
|        | LE-53   | S-tension LED                        |
|        | PTC-29  | T-tension CDS                        |
|        | LE-54   | T-tension LED                        |
|        | DUS-177 | T-reel motor                         |
|        | DUS-178 | S-reel motor                         |
|        | VR-48   | Tracking control                     |

| System    | Board   | Circuit function                                     |
|-----------|---------|--|
| SYSCON    | SY-102  | System control                                       |
|           | KY-101  | Function key board                                   |
|           | DP-62   | Display  |
|           | BC-11   | Video/audio timing control                           |
|           | HN-80   | Threading motor driver                               |
|           | LM-13   | Threading motor                                      |
|           | PD-37   | Cassette-up compartment motor driver/Solenoid driver |
|           | CC-31   | Cassette compartment driver                          |
|           | CC-32   | Cassette in detector                                 |
|           | CC-33   | Cassette down detector                               |
|           | PTC-30  | SP, miss REC. KCA detector                           |
|           | PTC-33  | FR stop detector                                     |
|           | PTC-34  | Unthread end detector                                |
|           | PH-5(A) | Tape top LED   |
|           | PH-5(B) | Tape top sensor                                      |
|           | PH-5(C) | Tape end LED   |
|           | PTC-26  | Tape end sensor                                      |
|           | SW-170  | Select switch /warning indicator                     |
|           | SW-171  | Remote 1/2 Select /TBC ON/OFF /Character ON/OFF      |
|           | PTC-32  | Search dial  |
|           | RM-44   | Remote control (9pin & 24pin)                        |
|           | DSC-44  | Character generator                                  |
| TIME CODE | TC-42   | Time code (Option)                                   |
|           | BC-11   | Time code REC/PB amplifier                           |
|           | HN-84   | Time code head                                       |
|           | SW-172  | Time code control Switch (Option)                    |
| POWER     | AC-78   | AC primary circuit                                   |
|           | M1      | } Switching Regulator (UR-21)                        |
|           | M2      |  |
|           | C1      |  |
|           | C2      |  |
| OTHERS    | MB-127  | Mother board   |
|           | MB-139  | Sub mother for TC                                    |
|           | CP-109  | Connector pannel                                     |
|           | RM-45   | TBC remote control                                   |
|           | AC-78   | AC primary circuit                                   |
|           | EX-127  | Extention board for audio/time code                  |
|           | EX-128  | Extention board for video/servo/TBC                  |
|           | HN-80   | Relay board for video/tape sensor/thread motor drive |
|           | HN-83   | Relay board for time code head/erase head            |
|           | MT-28   | Meter  |
|           | LP-41   | Cassette compartment light                           |
|           | TBC-5   | Time base corrector (Option)                         |
|           | DUS-151 | Connection (Option)                                  |



RP-30; RF REC/PB /ROTARY ERASE

S/N UP TO 10020(J)

S/N UP TO 10080(UC)

RP-30 (1-622-741-11)

|       |     |    |     |
|-------|-----|----|-----|
| CN701 | B-2 | T1 | C-2 |
| CN702 | B-1 | T2 | D-2 |
| CN703 | B-2 | T3 | D-2 |
| CN704 | D-2 | T4 | D-1 |
| CN705 | D-2 | T5 | D-1 |
| CN706 | A-1 |    |     |

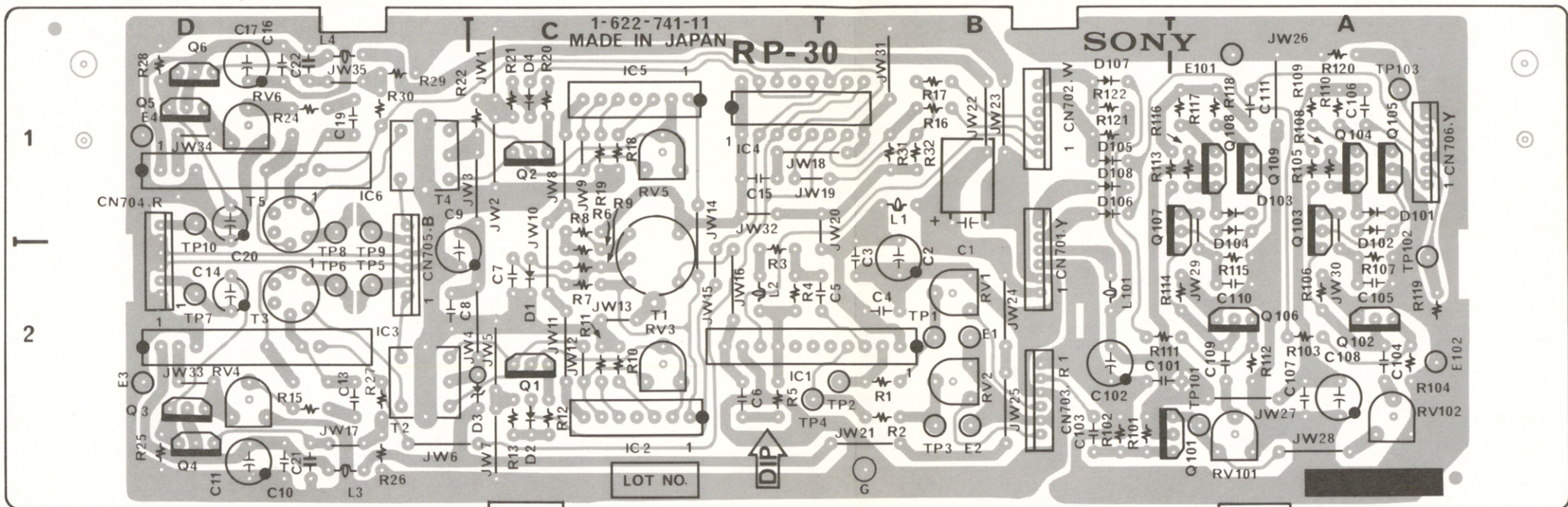
|      |     |       |     |
|------|-----|-------|-----|
| D1   | C-2 | TP1   | B-2 |
| D2   | C-2 | TP2   | B-2 |
| D3   | C-2 | TP3   | B-2 |
| D4   | C-1 | TP4   | C-2 |
| D101 | A-1 | TP5   | D-2 |
| D102 | A-1 | TP6   | D-2 |
| D103 | A-1 | TP7   | D-2 |
| D104 | A-1 | TP8   | D-1 |
| D105 | A-1 | TP9   | D-1 |
| D106 | B-1 | TP10  | D-1 |
| D107 | B-1 | TP101 | A-2 |
| D108 | B-1 | TP102 | A-2 |
|      |     | TP103 | A-1 |

|      |     |
|------|-----|
| E1   | B-2 |
| E2   | B-2 |
| E3   | D-2 |
| E4   | D-1 |
| E101 | A-1 |
| E102 | A-2 |

|     |     |
|-----|-----|
| IC1 | C-2 |
| IC2 | C-2 |
| IC3 | D-2 |
| IC4 | C-1 |
| IC5 | C-1 |
| IC6 | D-1 |

|      |     |
|------|-----|
| Q1   | C-2 |
| Q2   | C-1 |
| Q3   | D-2 |
| Q4   | D-2 |
| Q5   | D-1 |
| Q6   | D-1 |
| Q101 | A-2 |
| Q102 | A-2 |
| Q103 | A-1 |
| Q104 | A-1 |
| Q105 | A-1 |
| Q106 | A-2 |
| Q107 | A-1 |
| Q108 | A-1 |
| Q109 | A-1 |

|       |     |
|-------|-----|
| RV1   | B-2 |
| RV2   | B-2 |
| RV3   | C-2 |
| RV4   | D-2 |
| RV5   | C-1 |
| RV6   | D-1 |
| RV101 | A-2 |
| RV102 | A-2 |



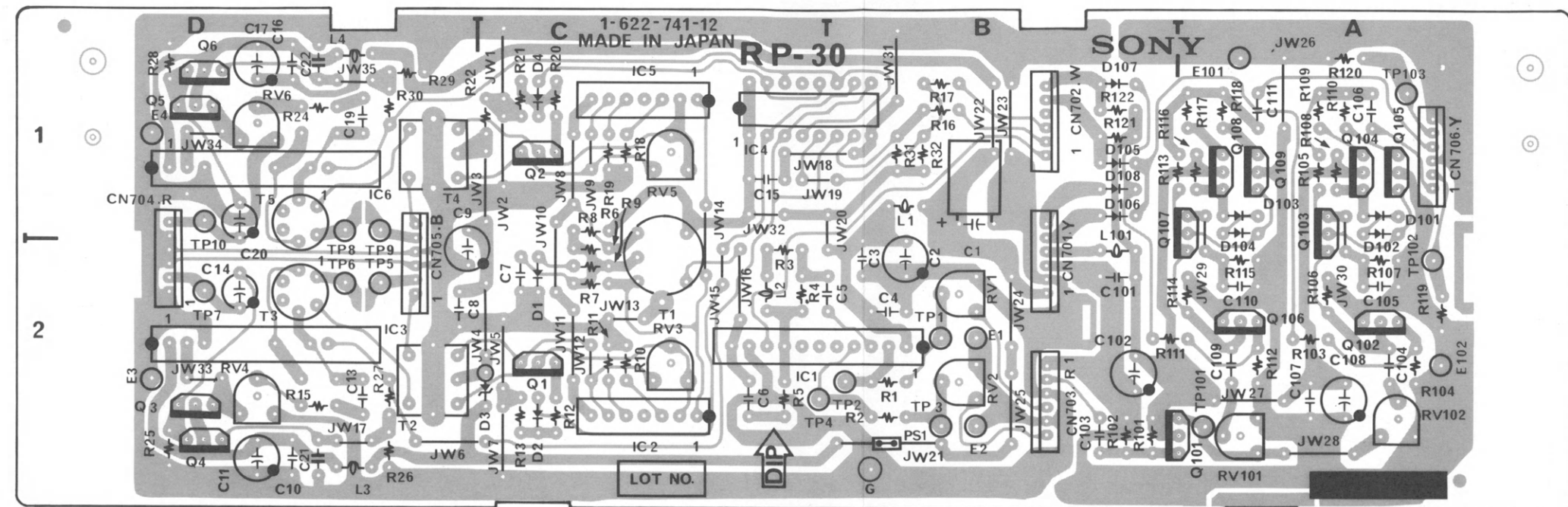
RP-30/A —COMPONENT SIDE—  
1-622-741-11(1)  
BVU-950  
BVU-950P



RP-30: RF REC/PB /ROTARY ERASE  
S/N 10021 AND HIGHER(J)  
S/N 10081 AND HIGHER(UC)

RP-30 (1-622-741-12)

|       |     |       |     |
|-------|-----|-------|-----|
| CN701 | B-2 | T1    | C-2 |
| CN702 | B-1 | T2    | D-2 |
| CN703 | B-2 | T3    | D-2 |
| CN704 | D-2 | T4    | D-1 |
| CN705 | D-2 | T5    | D-1 |
| CN706 | A-1 |       |     |
|       |     | TP1   | B-2 |
| D1    | C-2 | TP2   | B-2 |
| D2    | C-2 | TP3   | B-2 |
| D3    | C-2 | TP4   | C-2 |
| D4    | C-1 | TP5   | D-2 |
| D101  | A-1 | TP6   | D-2 |
| D102  | A-1 | TP7   | D-2 |
| D103  | A-1 | TP8   | D-1 |
| D104  | A-1 | TP9   | D-1 |
| D105  | B-1 | TP10  | D-1 |
| D106  | B-1 | TP101 | A-2 |
| D107  | B-1 | TP102 | A-2 |
| D108  | B-1 | TP103 | A-1 |
|       |     |       |     |
| E1    | B-2 |       |     |
| E2    | B-2 |       |     |
| E3    | D-2 |       |     |
| E4    | D-1 |       |     |
| E101  | A-1 |       |     |
| E102  | A-2 |       |     |
|       |     |       |     |
| IC1   | C-2 |       |     |
| IC2   | C-2 |       |     |
| IC3   | D-2 |       |     |
| IC4   | C-1 |       |     |
| IC5   | C-1 |       |     |
| IC6   | D-1 |       |     |
|       |     |       |     |
| Q1    | C-2 |       |     |
| Q2    | C-1 |       |     |
| Q3    | D-2 |       |     |
| Q4    | D-2 |       |     |
| Q5    | D-1 |       |     |
| Q6    | D-1 |       |     |
| Q101  | A-2 |       |     |
| Q102  | A-2 |       |     |
| Q103  | A-1 |       |     |
| Q104  | A-1 |       |     |
| Q105  | A-1 |       |     |
| Q106  | A-2 |       |     |
| Q107  | A-1 |       |     |
| Q108  | A-1 |       |     |
| Q109  | A-1 |       |     |
|       |     |       |     |
| RV1   | B-2 |       |     |
| RV2   | B-2 |       |     |
| RV3   | C-2 |       |     |
| RV4   | D-2 |       |     |
| RV5   | C-1 |       |     |
| RV6   | D-1 |       |     |
| RV101 | A-2 |       |     |
| RV102 | A-2 |       |     |



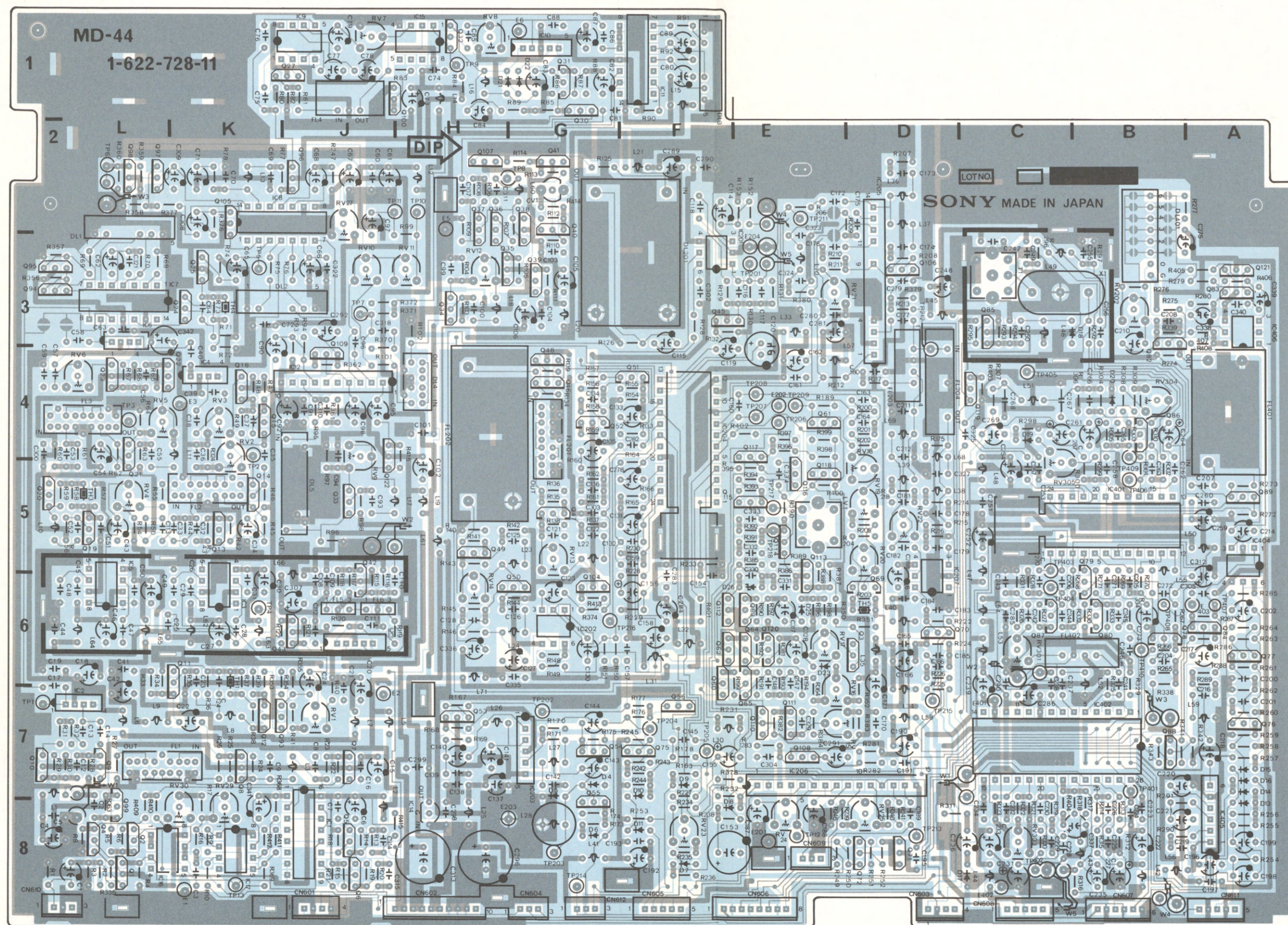
RP-30/A —COMPONENT SIDE—  
1-622-741-12(1)  
BVU-950  
BVU-950P



## MD-44; Y/C MODULATOR

MD-44 (1-622-728-11)

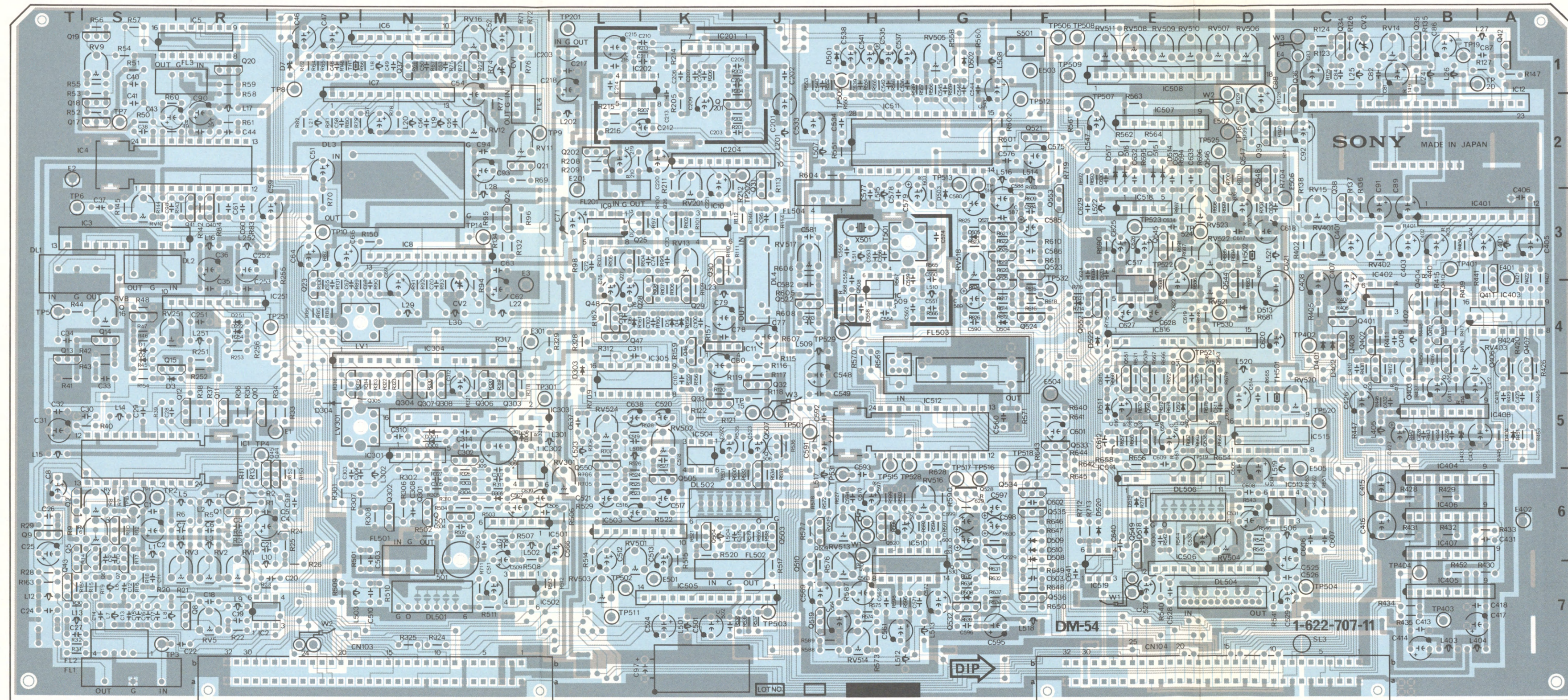
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|-------|-----|-------|-----|-----|-----|-------|-----|-------|-----|
| CN601 | J-8 | FL6   | J-6 | Q22 | L-4 | Q97   | L-2 |       |     |
| CN602 | H-8 | FL201 | G-4 | Q23 | L-4 | Q98   | L-2 | TP1   | L-7 |
| CN603 | D-8 | FL202 | H-4 | Q24 | K-3 | Q99   | L-8 | TP2   | K-4 |
| CN604 | G-8 | FL203 | D-4 | Q25 | K-3 | Q100  | J-1 | TP3   | L-4 |
| CN605 | F-8 | FL204 | D-4 | Q27 | J-1 | Q104  | G-6 | TP4   | K-6 |
| CN606 | E-8 | FL401 | A-4 | Q30 | G-1 | Q105  | K-2 | TP5   | K-3 |
| CN607 | B-8 | FL402 | B-6 | Q31 | G-1 | Q106  | D-3 | TP6   | L-2 |
| CN608 | C-8 |       |     | Q32 | H-1 | Q107  | H-2 | TP7   | J-3 |
| CN609 | E-8 | IC1   | J-8 | Q33 | J-5 | Q108  | E-7 | TP8   | H-2 |
| CN610 | L-8 | IC2   | L-7 | Q34 | H-3 | Q109  | J-4 | TP9   | H-1 |
| CN611 | A-8 | IC3   | K-6 | Q35 | H-3 | Q110  | E-7 | TP10  | H-2 |
| CN612 | G-8 | IC4   | K-4 | Q36 | H-2 | Q111  | E-7 | TP11  | J-2 |
|       |     | IC5   | L-6 | Q37 | H-2 | Q112  | F-6 | TP12  | E-8 |
| CV1   | G-2 | IC6   | L-3 | Q38 | G-2 | Q113  | E-5 | TP13  | K-8 |
|       |     | IC7   | L-3 | Q39 | G-3 | Q114  | E-5 | TP201 | E-3 |
| D4    | G-7 | IC8   | K-2 | Q40 | G-2 | Q115  | E-5 | TP202 | G-7 |
| D5    | G-7 | IC9   | J-1 | Q41 | G-2 | Q116  | E-5 | TP203 | G-8 |
| D6    | G-8 | IC10  | G-1 | Q42 | J-6 | Q117  | E-4 | TP204 | F-7 |
| D7    | F-8 | IC11  | F-1 | Q43 | J-6 | Q118  | E-5 | TP205 | F-7 |
| D8    | F-8 | IC12  | J-4 | Q45 | F-3 | Q119  | C-4 | TP206 | E-4 |
| D9    | F-7 | IC13  | J-6 | Q46 | G-4 | Q120  | E-6 | TP207 | E-4 |
| D10   | F-7 | IC14  | H-8 | Q47 | G-5 | Q121  | A-3 | TP208 | E-4 |
| D11   | F-8 | IC15  | H-1 | Q48 | G-4 | Q122  | J-4 | TP209 | E-4 |
| D17   | C-8 | IC16  | L-8 | Q49 | H-5 |       |     | TP211 | E-2 |
| D18   | B-3 | IC17  | K-8 | Q50 | G-6 | RV1   | J-7 | TP212 | D-3 |
| D19   | C-4 | IC201 | F-3 | Q51 | F-4 | RV2   | K-4 | TP213 | D-8 |
| D20   | B-4 | IC202 | G-6 | Q52 | G-4 | RV3   | K-4 | TP214 | G-8 |
| D21   | G-1 | IC203 | G-7 | Q53 | H-7 | RV4   | L-5 | TP215 | D-7 |
| D22   | G-1 | IC204 | F-4 | Q54 | G-7 | RV5   | L-4 | TP216 | G-6 |
| D23   | E-6 | IC205 | D-3 | Q55 | G-7 | RV6   | L-4 | TP217 | E-5 |
| D25   | E-6 | IC206 | E-7 | Q56 | F-7 | RV7   | J-1 | TP218 | E-5 |
| D26   | E-6 | IC207 | D-5 | Q60 | F-6 | RV8   | H-1 | TP401 | B-7 |
|       |     | IC401 | B-5 | Q61 | E-4 | RV9   | J-4 | TP402 | C-8 |
| DL1   | L-2 | IC402 | C-7 | Q62 | F-6 | RV10  | J-3 | TP403 | C-5 |
| DL2   | K-3 | IC404 | A-5 | Q63 | E-6 | RV11  | H-3 | TP404 | C-6 |
| DL3   | F-1 | IC405 | A-8 | Q64 | E-6 | RV12  | H-3 | TP405 | C-4 |
| DL4   | H-4 | IC406 | A-3 | Q65 | E-6 | RV13  | G-5 | TP406 | B-5 |
| DL5   | J-5 |       |     | Q69 | D-6 | RV14  | H-6 | TP407 | A-6 |
| DL201 | F-3 | LV1   | E-5 | Q70 | D-6 | RV15  | E-7 | TP408 | B-6 |
| DL401 | B-2 |       |     | Q71 | D-8 | RV16  | E-7 | TP409 | B-4 |
|       |     | Q1    | L-8 | Q72 | D-8 | RV17  | E-6 | TP410 | B-6 |
| E1    | K-8 | Q2    | L-8 | Q75 | F-7 | RV18  | D-5 |       |     |
| E2    | J-7 | Q3    | D-6 | Q76 | A-7 | RV19  | D-5 | X1    | C-3 |
| E3    | K-4 | Q4    | L-8 | Q77 | A-6 | RV20  | D-5 |       |     |
| E5    | H-2 | Q5    | J-8 | Q78 | B-6 | RV21  | E-3 |       |     |
| E6    | G-1 | Q6    | J-8 | Q79 | B-6 | RV22  | D-5 |       |     |
| E201  | E-8 | Q7    | K-7 | Q80 | B-6 | RV23  | F-8 |       |     |
| E202  | E-4 | Q8    | J-7 | Q82 | B-3 | RV24  | E-8 |       |     |
| E203  | H-8 | Q9    | L-7 | Q83 | A-3 | RV25  | D-8 |       |     |
| E204  | E-3 | Q10   | L-7 | Q84 | A-6 | RV27  | J-2 |       |     |
| E401  | C-7 | Q11   | K-6 | Q85 | C-3 | RV29  | K-8 |       |     |
| E402  | C-8 | Q12   | K-7 | Q86 | B-4 | RV30  | K-8 |       |     |
| E403  | A-6 | Q13   | K-5 | Q87 | C-6 | RV202 | B-3 |       |     |
|       |     | Q14   | K-5 | Q88 | B-7 | RV301 | C-6 |       |     |
| FL1   | L-7 | Q15   | K-4 | Q89 | A-5 | RV303 | C-8 |       |     |
| FL2   | K-5 | Q16   | K-4 | Q93 | K-7 | RV304 | B-4 |       |     |
| FL3   | L-4 | Q19   | L-5 | Q94 | L-3 | RV305 | C-4 |       |     |
| FL4   | J-1 | Q20   | L-5 | Q95 | L-3 |       |     |       |     |
| FL5   | J-6 | Q21   | L-4 | Q96 | J-2 | T1    | C-3 |       |     |





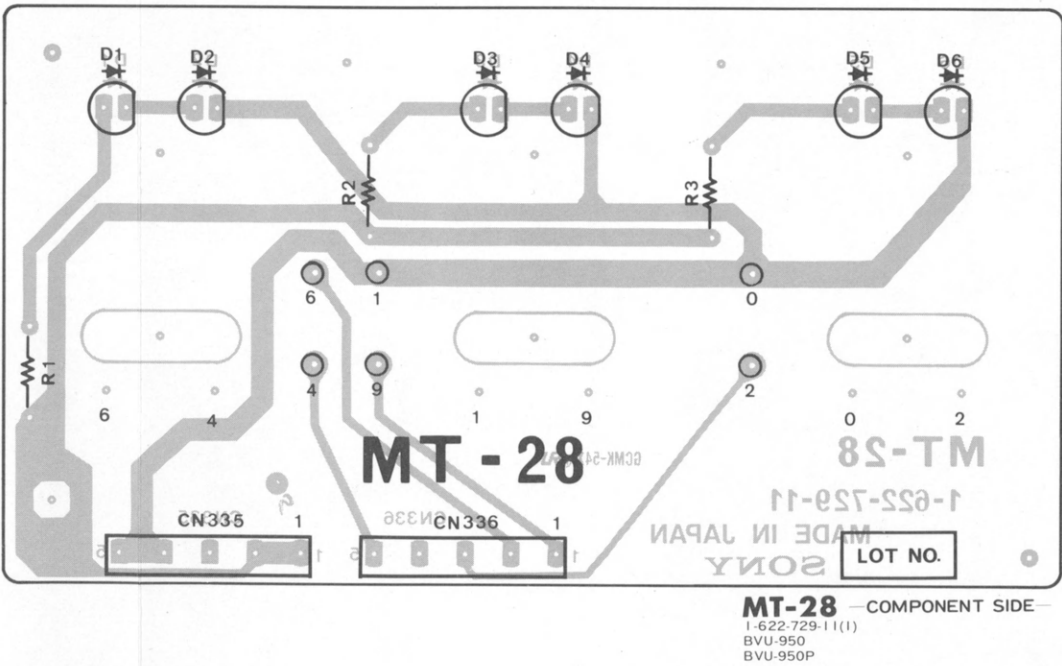
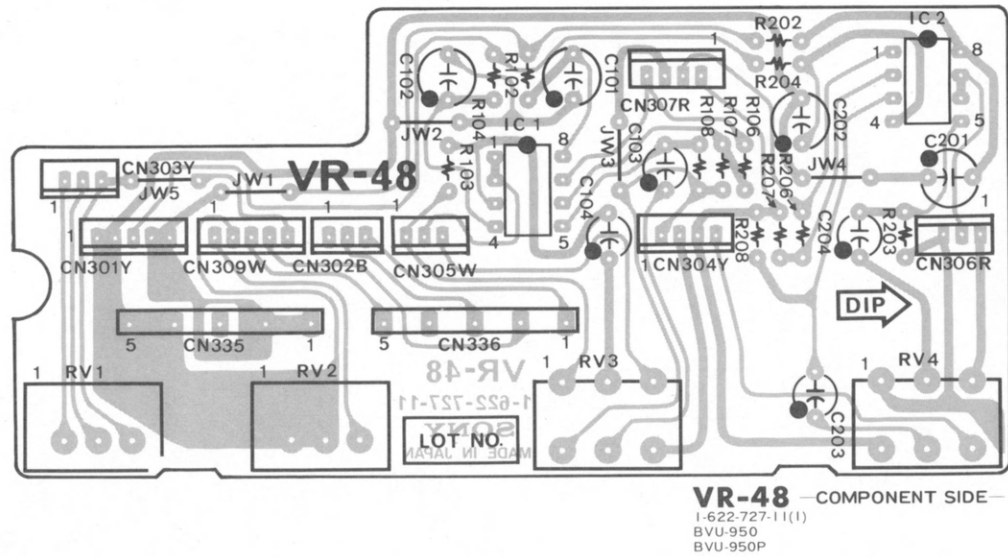
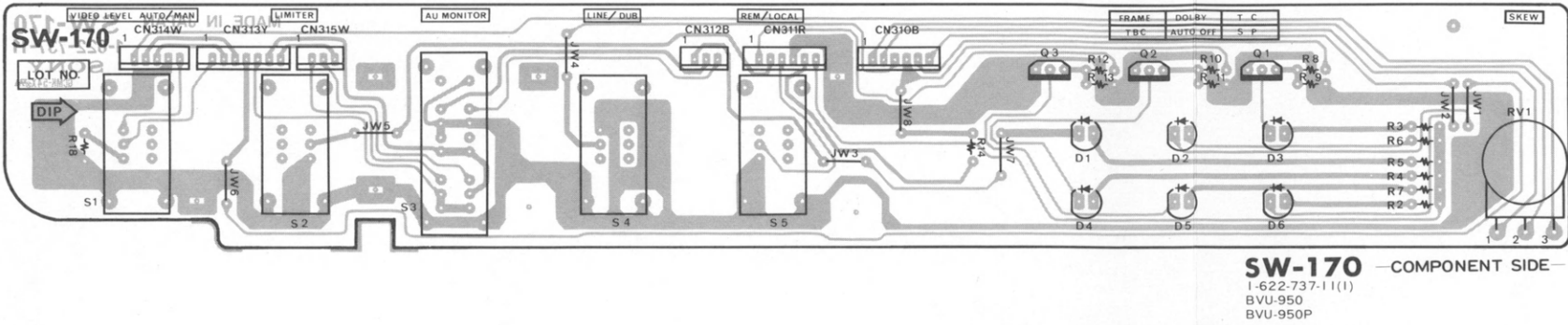
DM-54 (1-622-707-11)

|       |     |       |     |       |     |      |     |       |     |       |     |
|-------|-----|-------|-----|-------|-----|------|-----|-------|-----|-------|-----|
| CN103 | P-7 | E3    | M-3 | IC507 | E-2 | Q43  | T-7 | Q541  | E-4 | T501  | H-3 |
| CN104 | D-7 | E4    | D-1 | IC508 | E-1 | Q44  | P-5 | Q542  | E-5 |       |     |
|       |     | E201  | L-2 | IC509 | H-3 | Q45  | R-5 | Q543  | D-4 | TP1   | R-6 |
| CV1   | M-1 | E301  | M-4 | IC510 | H-6 | Q46  | K-4 | Q544  | D-3 | TP2   | S-6 |
| CV2   | M-3 | E401  | A-3 | IC511 | G-2 | Q47  | L-4 | Q545  | E-3 | TP3   | S-7 |
| CV3   | C-1 | E402  | A-6 | IC512 | H-5 | Q48  | L-4 | Q546  | D-2 | TP4   | R-5 |
|       |     | E501  | L-7 | IC513 | D-6 | Q201 | J-2 | Q547  | D-2 | TP5   | T-4 |
| D1    | S-4 | E502  | D-2 | IC514 | E-5 | Q202 | L-2 | Q548  | D-2 | TP6   | T-3 |
| D2    | S-4 | E503  | F-1 | IC515 | D-5 | Q301 | N-6 | Q549  | E-6 | TP7   | S-2 |
| D3    | S-4 | E504  | F-5 | IC516 | E-4 | Q302 | N-6 | Q550  | L-5 | TP8   | P-1 |
| D4    | K-4 | E505  | C-5 | IC517 | E-3 | Q303 | M-5 | Q551  | E-4 | TP9   | M-2 |
| D5    | K-4 | E506  | D-3 | IC518 | E-3 | Q304 | N-5 | Q552  | F-4 | TP10  | P-3 |
| D6    | L-4 |       |     | IC519 | F-6 | Q305 | P-5 | Q553  | F-3 | TP14  | M-3 |
| D7    | P-1 | FL1   | S-7 |       |     | Q306 | M-5 |       |     | TP15  | J-5 |
| D251  | R-4 | FL2   | S-7 | LV1   | N-4 | Q307 | N-5 | RV1   | R-6 | TP16  | D-2 |
| D252  | R-4 | FL3   | R-1 | LV301 | P-5 | Q308 | N-5 | RV2   | R-6 | TP17  | S-6 |
| D301  | N-5 | FL4   | M-2 | LV501 | M-6 | Q309 | M-5 | RV3   | S-6 | TP18  | S-6 |
| D302  | N-5 | FL201 | L-3 |       |     | Q401 | C-4 | RV4   | S-6 | TP19  | B-1 |
| D303  | L-4 | FL501 | N-6 | Q1    | R-6 | Q402 | C-4 | RV5   | R-7 | TP20  | A-1 |
| D304  | D-5 | FL502 | K-6 | Q2    | T-6 | Q403 | B-4 | RV6   | S-6 | TP201 | L-1 |
| D305  | M-6 | FL503 | G-4 | Q3    | S-6 | Q404 | B-4 | RV8   | S-4 | TP202 | J-2 |
| D306  | M-5 | FL504 | J-3 | Q5    | T-6 | Q405 | B-4 | RV9   | S-1 | TP251 | P-4 |
| D401  | C-4 |       |     | Q6    | S-6 | Q406 | A-4 | RV10  | S-3 | TP301 | M-5 |
| D402  | C-4 | IC1   | S-5 | Q7    | S-6 | Q407 | A-4 | RV11  | M-2 | TP401 | B-3 |
| D403  | B-5 | IC2   | R-7 | Q8    | R-7 | Q408 | C-4 | RV12  | M-2 | TP402 | C-4 |
| D404  | A-5 | IC3   | S-3 | Q9    | T-6 | Q409 | C-4 | RV13  | K-3 | TP403 | B-7 |
| D501  | H-1 | IC4   | S-2 | Q10   | R-5 | Q410 | B-4 | RV14  | B-1 | TP404 | B-6 |
| D502  | G-3 | IC5   | R-1 | Q11   | R-5 | Q411 | A-3 | RV15  | C-3 | TP501 | J-5 |
| D503  | G-4 | IC6   | N-1 | Q12   | R-5 | Q412 | B-4 | RV16  | M-1 | TP502 | L-7 |
| D504  | G-3 | IC7   | N-1 | Q13   | T-4 | Q501 | M-6 | RV201 | K-2 | TP503 | J-7 |
| D505  | G-3 | IC8   | N-3 | Q14   | S-4 | Q503 | J-6 | RV251 | S-4 | TP504 | C-7 |
| D506  | G-7 | IC9   | L-3 | Q15   | S-4 | Q504 | K-6 | RV301 | L-5 | TP505 | H-1 |
| D508  | F-6 | IC10  | K-3 | Q16   | S-4 | Q505 | K-5 | RV401 | C-3 | TP506 | F-1 |
| D509  | F-6 | IC11  | K-4 | Q17   | S-2 | Q506 | J-5 | RV402 | C-3 | TP507 | F-2 |
| D510  | F-6 | IC12  | B-2 | Q18   | S-2 | Q507 | J-5 | RV403 | B-4 | TP508 | F-1 |
| D511  | E-5 | IC201 | K-1 | Q19   | S-1 | Q508 | H-4 | RV501 | L-6 | TP509 | F-1 |
| D512  | E-5 | IC202 | L-1 | Q20   | R-1 | Q509 | J-6 | RV502 | K-5 | TP510 | H-6 |
| D513  | D-4 | IC203 | L-1 | Q21   | M-2 | Q510 | J-6 | RV503 | L-7 | TP511 | L-7 |
| D514  | E-2 | IC204 | K-2 | Q22   | M-1 | Q519 | J-7 | RV504 | D-6 | TP512 | F-2 |
| D515  | E-2 | IC251 | R-4 | Q23   | P-3 | Q520 | H-6 | RV505 | G-1 | TP513 | G-2 |
| D516  | E-2 | IC301 | N-5 | Q24   | M-3 | Q521 | F-2 | RV506 | D-1 | TP514 | G-2 |
| D517  | E-2 | IC302 | M-5 | Q25   | L-3 | Q522 | J-4 | RV507 | D-1 | TP515 | H-5 |
| D518  | E-6 | IC303 | M-5 | Q26   | K-3 | Q523 | F-3 | RV508 | E-1 | TP516 | G-5 |
| D519  | E-6 | IC304 | N-4 | Q27   | L-3 | Q524 | F-4 | RV509 | E-1 | TP517 | G-5 |
| D520  | F-6 | IC305 | L-4 | Q28   | K-3 | Q525 | G-3 | RV510 | E-1 | TP518 | F-5 |
| D521  | F-4 | IC401 | B-3 | Q29   | K-3 | Q526 | G-3 | RV511 | E-1 | TP519 | E-5 |
| D522  | F-4 | IC402 | C-4 | Q30   | K-3 | Q527 | G-3 | RV513 | H-6 | TP520 | C-5 |
|       |     | IC403 | A-4 | Q31   | J-2 | Q528 | G-6 | RV514 | H-7 | TP521 | E-4 |
| DL1   | T-3 | IC404 | B-5 | Q32   | J-5 | Q529 | G-6 | RV516 | G-6 | TP522 | E-3 |
| DL2   | S-3 | IC405 | B-7 | Q33   | K-5 | Q530 | G-6 | RV517 | J-3 | TP523 | E-3 |
| DL3   | N-2 | IC406 | B-6 | Q34   | C-1 | Q532 | G-7 | RV518 | G-3 | TP524 | E-3 |
| DL4   | J-3 | IC407 | B-6 | Q35   | B-1 | Q533 | F-5 | RV519 | H-6 | TP525 | D-2 |
| DL501 | N-7 | IC408 | B-5 | Q36   | C-2 | Q534 | F-6 | RV520 | C-5 | TP528 | H-5 |
| DL502 | K-6 | IC501 | M-6 | Q37   | N-1 | Q535 | F-6 | RV521 | D-3 | TP529 | H-4 |
| DL504 | D-7 | IC502 | M-7 | Q38   | C-3 | Q536 | F-7 | RV522 | D-3 | TP530 | D-4 |
| DL506 | E-6 | IC503 | L-6 | Q39   | D-2 | Q537 | E-5 | RV523 | E-3 | TP531 | H-5 |
|       |     | IC504 | K-5 | Q40   | R-3 | Q538 | D-5 | RV524 | L-5 | TP532 | F-3 |
| E1    | P-5 | IC505 | K-7 | Q41   | R-3 | Q539 | E-4 |       |     |       |     |
| E2    | T-2 | IC506 | D-6 | Q42   | A-1 | Q540 | E-5 | S501  | F-1 | X501  | H-3 |





SW-170; SELECT SWITCH/WARNING INDICATOR  
VR-48; VIDEO/AUDIO/TRACKING LEVEL CONTROL  
MT-28; VIDEO/AUDIO/LEVEL METER

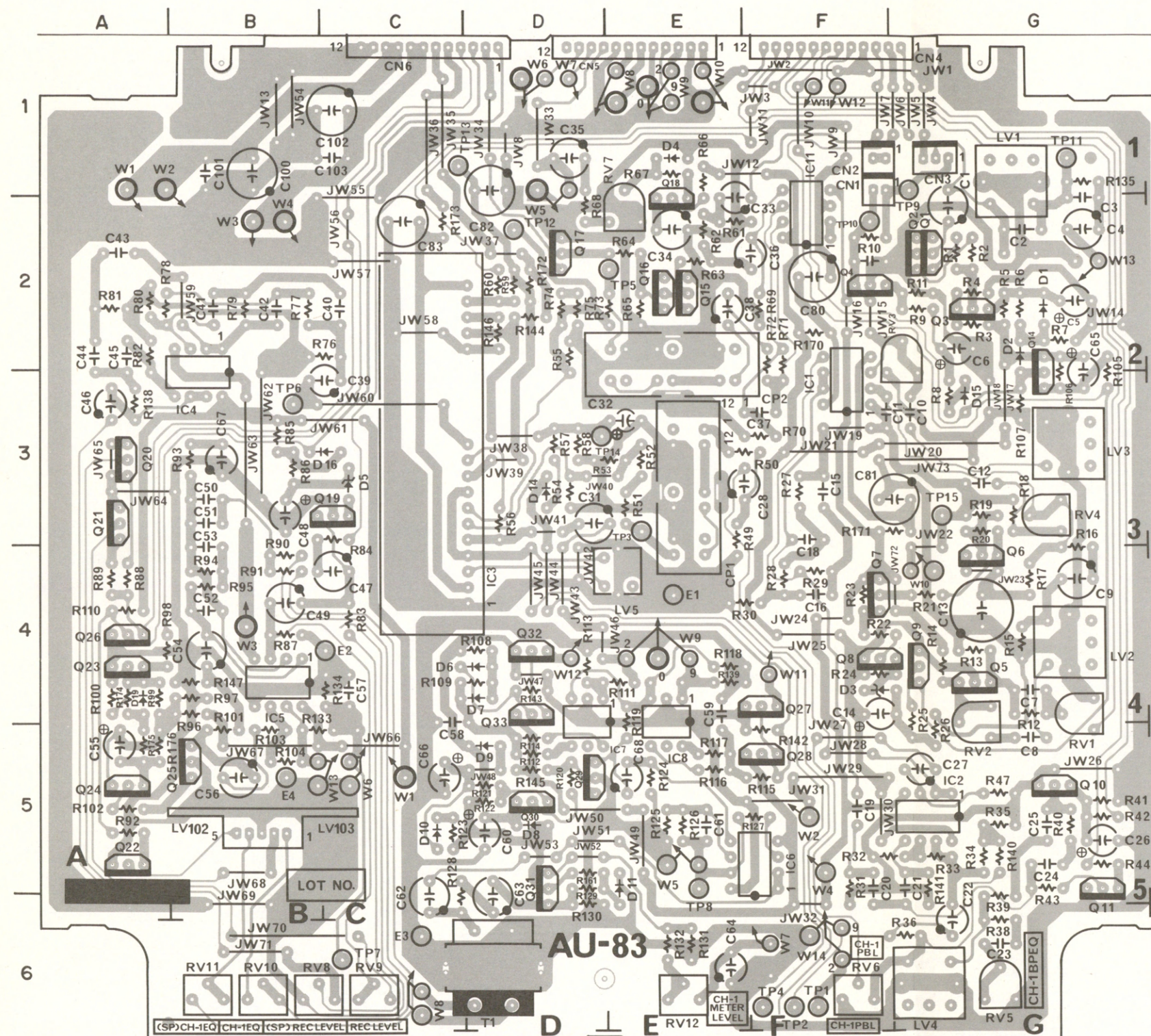




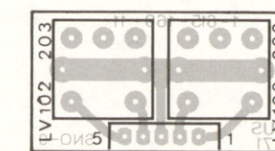
AU-83; CH-1 REC/PB /DOLBY PROCESSOR  
DUS-71; VARIABLE COIL

AU-83 (1-622-700-11)

|       |     |      |     |
|-------|-----|------|-----|
| CN1   | F-1 | Q11  | G-5 |
| CN2   | F-1 | Q14  | G-2 |
| CN3   | G-1 | Q15  | E-2 |
| CN4   | F-1 | Q16  | E-2 |
| CN5   | E-1 | Q17  | D-2 |
| CN6   | C-1 | Q18  | E-1 |
|       |     | Q19  | C-3 |
| CP1   | E-3 | Q20  | A-3 |
| CP2   | E-2 | Q21  | A-3 |
|       |     | Q22  | A-5 |
|       |     | Q23  | A-4 |
| D1    | G-2 | Q24  | A-5 |
| D2    | G-2 | Q25  | B-5 |
| D3    | F-4 | Q26  | A-4 |
| D4    | E-1 | Q27  | F-4 |
| D5    | C-3 | Q28  | F-5 |
| D6    | D-4 | Q29  | D-5 |
| D7    | D-4 | Q30  | D-5 |
| D8    | D-5 | Q31  | D-5 |
| D9    | D-5 | Q32  | D-4 |
| D10   | C-5 | Q33  | D-4 |
| D11   | E-5 |      |     |
| D14   | D-3 |      |     |
| D15   | G-3 | RV1  | G-5 |
| D16   | C-3 | RV2  | G-5 |
| D19   | A-4 | RV3  | G-2 |
|       |     | RV4  | G-3 |
| E1    | E-4 | RV5  | G-6 |
| E2    | C-4 | RV6  | F-6 |
| E3    | C-6 | RV7  | E-2 |
| E4    | B-5 | RV8  | B-6 |
|       |     | RV9  | C-6 |
| IC1   | F-3 | RV10 | B-6 |
| IC2   | G-5 | RV11 | B-6 |
| IC3   | C-3 | RV12 | E-6 |
| IC4   | B-2 |      |     |
| IC5   | B-4 | T1   | D-6 |
| IC6   | F-5 |      |     |
| IC7   | D-5 | TP1  | F-6 |
| IC8   | E-5 | TP2  | F-6 |
| IC11  | F-2 | TP3  | E-3 |
|       |     | TP4  | F-6 |
|       |     | TP5  | E-2 |
| LV1   | G-1 | TP6  | B-3 |
| LV2   | G-4 | TP7  | C-6 |
| LV3   | G-3 | TP8  | E-5 |
| LV4   | G-6 | TP9  | G-1 |
| LV5   | E-4 | TP10 | F-2 |
| LV102 | B-5 | TP11 | G-1 |
| LV103 | B-5 | TP12 | D-2 |
|       |     | TP13 | C-1 |
| Q1    | G-2 | TP14 | D-3 |
| Q2    | G-2 | TP15 | G-3 |
| Q3    | G-2 |      |     |
| Q4    | F-2 |      |     |
| Q5    | G-4 |      |     |
| Q6    | G-4 |      |     |
| Q7    | F-4 |      |     |
| Q8    | F-4 |      |     |
| Q9    | G-4 |      |     |
| Q10   | G-5 |      |     |



AU-83/A — COMPONENT SIDE —  
1-622-700-11(1)  
BVU-950  
BVU-950P



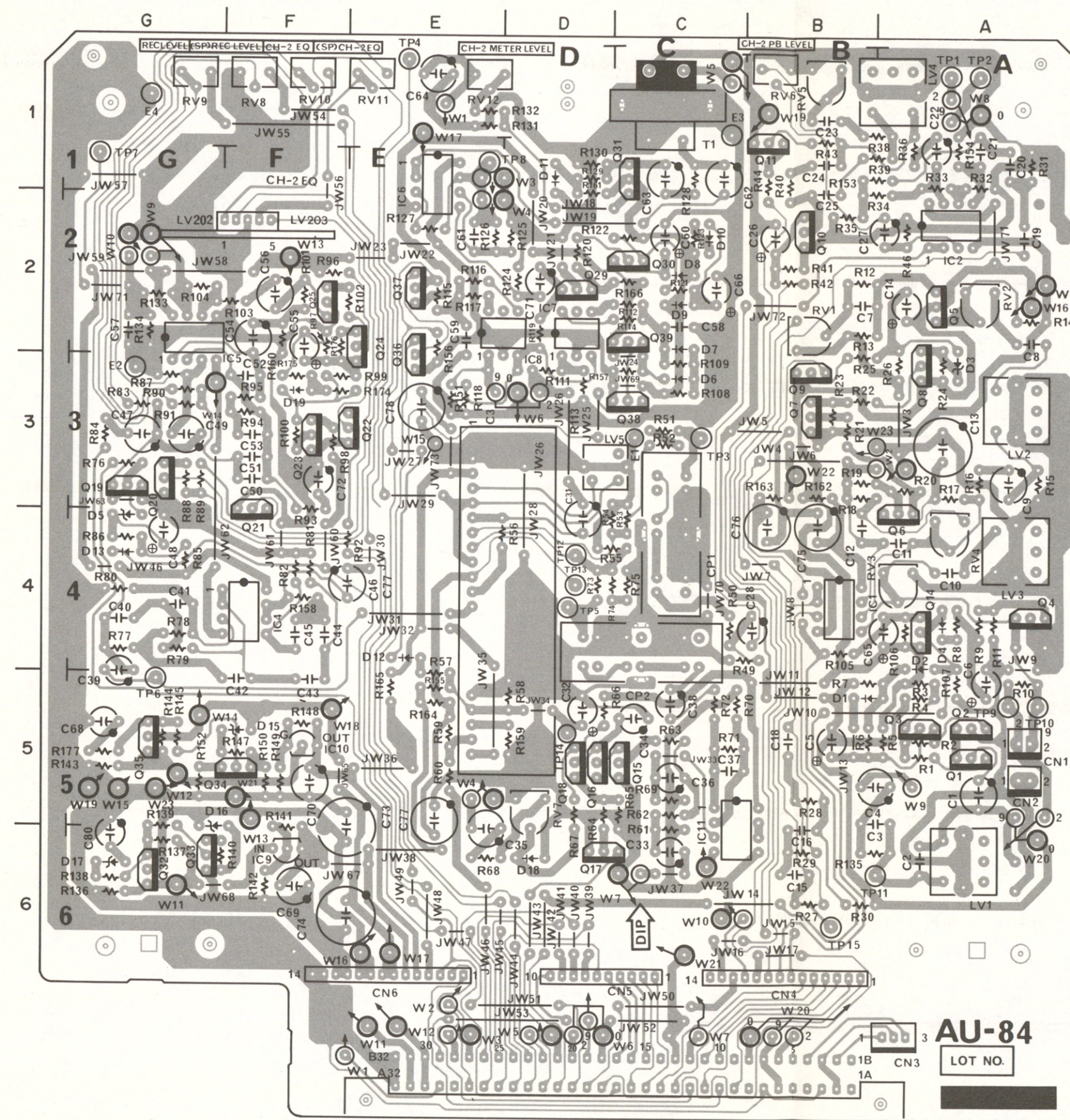
DUS-71 — COMPONENT SIDE —  
1-615-169-11(1)  
BVU-950  
BVU-950P



AU-84: CH-2 REC/PB AMPLIFIER  
DUS-71: VARIABLE COIL  
HN-77: JUNCTION BOARD

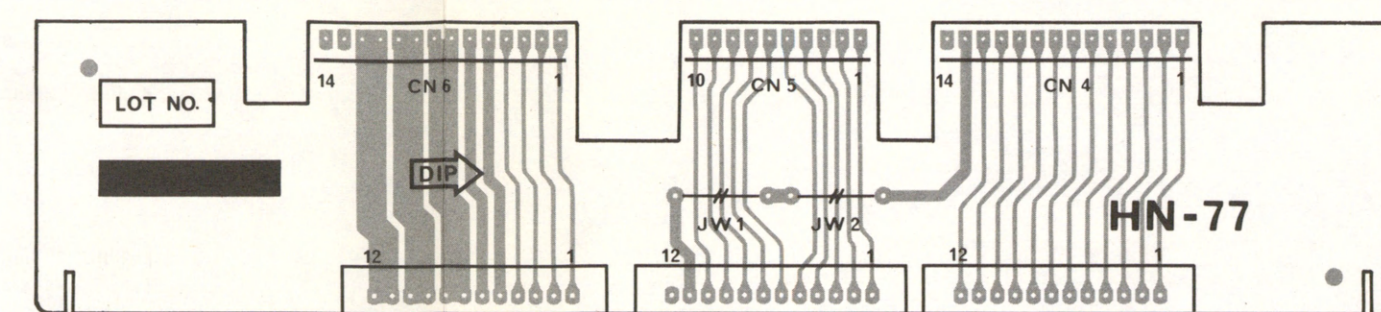
AU-84 (1-622-701-11)

|       |     |      |     |
|-------|-----|------|-----|
| CN1   | A-5 | Q7   | B-3 |
| CN2   | A-5 | Q8   | A-3 |
| CN3   | A-6 | Q9   | B-3 |
| CN4   | B-6 | Q10  | B-2 |
| CN5   | D-6 | Q11  | B-1 |
| CN6   | E-6 | Q14  | A-4 |
| CP1   | C-4 | Q16  | D-5 |
| CP2   | C-4 | Q17  | D-6 |
|       |     | Q18  | D-5 |
| D1    | B-5 | Q19  | G-3 |
| D2    | A-4 | Q20  | G-3 |
| D3    | A-3 | Q21  | F-4 |
| D4    | A-4 | Q22  | F-3 |
| D5    | G-4 | Q23  | F-3 |
| D6    | C-3 | Q24  | E-2 |
| D7    | C-2 | Q25  | F-2 |
| D8    | C-2 | Q29  | D-2 |
| D9    | C-2 | Q30  | C-2 |
| D10   | C-2 | Q31  | C-1 |
| D11   | D-1 | Q32  | G-6 |
| D12   | E-4 | Q33  | G-6 |
| D13   | G-4 | Q34  | F-5 |
| D15   | F-5 | Q35  | G-5 |
| D16   | G-5 | Q36  | E-2 |
| D17   | G-6 | Q37  | E-2 |
| D18   | D-6 | Q38  | C-3 |
| D19   | F-3 | Q39  | C-2 |
| E1    | C-3 | RV1  | B-2 |
| E2    | G-3 | RV2  | A-2 |
| E3    | C-1 | RV3  | A-4 |
| E4    | G-1 | RV4  | A-4 |
|       |     | RV5  | B-1 |
|       |     | RV6  | B-1 |
|       |     | RV7  | D-5 |
| IC1   | B-4 | RV8  | F-1 |
| IC2   | A-2 | RV9  | G-1 |
| IC3   | E-3 | RV10 | F-1 |
| IC4   | F-4 | RV11 | E-1 |
| IC5   | G-2 | RV12 | E-1 |
| IC6   | E-1 |      |     |
| IC7   | D-2 |      |     |
| IC8   | E-2 |      |     |
| IC9   | F-6 | T1   | C-1 |
| IC10  | F-5 |      |     |
| IC11  | C-6 |      |     |
| LV1   | A-6 | TP1  | A-1 |
| LV2   | A-3 | TP2  | A-1 |
| LV3   | A-4 | TP3  | C-3 |
| LV4   | A-1 | TP4  | E-1 |
| LV5   | D-3 | TP5  | D-4 |
| LV202 | F-2 | TP6  | G-1 |
| LV203 | F-2 | TP8  | E-1 |
|       |     | TP9  | A-5 |
|       |     | TP10 | A-5 |
| Q1    | A-5 | TP11 | B-6 |
| Q2    | A-5 | TP12 | D-4 |
| Q3    | A-5 | TP13 | D-4 |
| Q4    | A-4 | TP14 | D-5 |
| Q5    | A-2 | TP15 | B-6 |
| Q6    | A-4 |      |     |

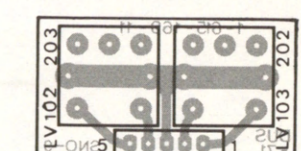


**AU-84**  
LOT NO.

**AU-84/A** —COMPONENT SIDE—  
1-622-701-11(1)  
BVU-950  
BVU-950P



**HN-77** —COMPONENT SIDE—  
1-622-724-11(1)  
BVU-950  
BVU-950P



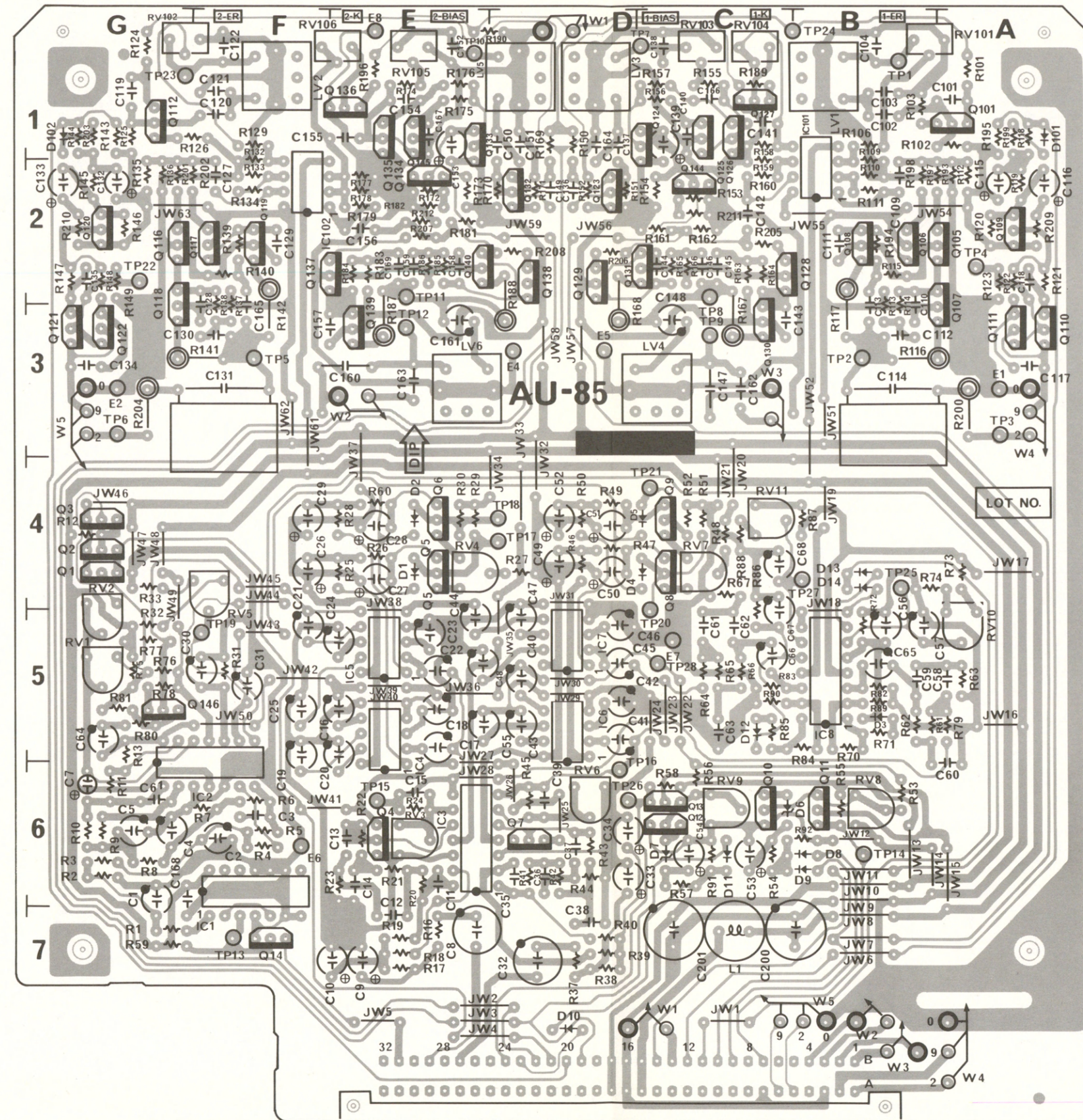
**DUS-71** —COMPONENT SIDE—  
1-615-169-11(1)  
BVU-950  
BVU-950P



## AU-85; DOLBY AUTO DETECTOR, BIAS OSCILLATOR

AU-85 (1-622-702-11)

|       |     |       |     |      |     |
|-------|-----|-------|-----|------|-----|
| D1    | E-4 | Q106  | B-2 | TP6  | G-3 |
| D2    | E-4 | Q107  | A-2 | TP7  | C-1 |
| D3    | B-5 | Q108  | B-2 | TP8  | C-2 |
| D4    | C-4 | Q109  | A-1 | TP9  | C-3 |
| D5    | C-4 | Q110  | A-3 | TP10 | E-1 |
| D6    | C-6 | Q111  | A-3 | TP11 | E-2 |
| D7    | C-6 | Q112  | G-1 | TP12 | E-3 |
| D8    | B-6 | Q116  | G-2 | TP13 | F-7 |
| D9    | B-6 | Q117  | F-2 | TP14 | B-6 |
| D10   | D-7 | Q118  | G-2 | TP15 | E-6 |
| D11   | C-6 | Q119  | F-2 | TP16 | D-6 |
| D12   | C-5 | Q120  | G-2 | TP17 | D-4 |
| D13   | B-4 | Q121  | G-3 | TP18 | D-4 |
| D14   | B-4 | Q122  | G-3 | TP19 | F-5 |
| D101  | A-1 | Q123  | D-2 | TP20 | C-4 |
| D102  | G-1 | Q124  | C-1 | TP21 | C-4 |
|       |     | Q125  | C-1 | TP22 | G-2 |
| E1    | A-3 | Q126  | C-1 | TP23 | G-1 |
| E2    | G-3 | Q127  | C-1 | TP24 | B-1 |
| E4    | D-3 | Q128  | C-2 | TP25 | B-4 |
| E5    | D-3 | Q129  | D-2 | TP26 | D-6 |
| E6    | F-6 | Q130  | C-3 | TP27 | B-4 |
| E7    | C-5 | Q131  | C-2 | TP28 | C-5 |
| E8    | E-1 | Q132  | D-2 |      |     |
|       |     | Q133  | E-1 |      |     |
| IC1   | F-6 | Q134  | E-1 |      |     |
| IC2   | F-6 | Q135  | E-1 |      |     |
| IC3   | E-6 | Q136  | E-1 |      |     |
| IC4   | E-5 | Q137  | F-2 |      |     |
| IC5   | E-5 | Q138  | D-2 |      |     |
| IC6   | D-5 | Q139  | E-3 |      |     |
| IC7   | D-5 | Q140  | E-2 |      |     |
| IC8   | B-5 | Q144  | C-2 |      |     |
| IC101 | B-1 | Q145  | E-2 |      |     |
| IC102 | F-2 | Q146  | G-5 |      |     |
| LV1   | B-1 | RV1   | G-5 |      |     |
| LV2   | F-1 | RV2   | G-5 |      |     |
| LV3   | D-1 | RV3   | E-6 |      |     |
| LV4   | C-3 | RV4   | E-4 |      |     |
| LV5   | D-1 | RV5   | F-4 |      |     |
| LV6   | F-3 | RV6   | D-6 |      |     |
|       |     | RV7   | C-4 |      |     |
| Q1    | G-4 | RV8   | B-6 |      |     |
| Q2    | G-4 | RV9   | C-6 |      |     |
| Q3    | G-4 | RV10  | A-5 |      |     |
| Q4    | E-6 | RV11  | C-4 |      |     |
| Q5    | E-4 | RV101 | B-1 |      |     |
| Q6    | E-4 | RV102 | G-1 |      |     |
| Q7    | D-6 | RV103 | C-1 |      |     |
| Q8    | C-4 | RV104 | C-1 |      |     |
| Q9    | C-4 | RV105 | E-1 |      |     |
| Q10   | C-6 | RV106 | E-1 |      |     |
| Q11   | B-6 |       |     |      |     |
| Q12   | C-6 | TP1   | B-1 |      |     |
| Q13   | C-6 | TP2   | B-3 |      |     |
| Q14   | F-7 | TP3   | A-3 |      |     |
| Q101  | A-1 | TP4   | A-2 |      |     |
| Q105  | A-2 | TP5   | F-3 |      |     |

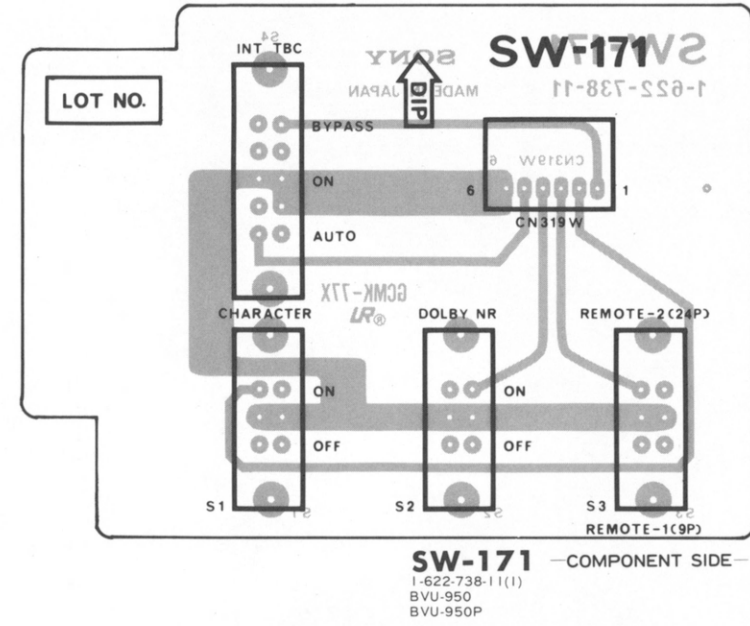


AU-85/A —COMPONENT SIDE—  
 1-622-702-11(1)  
 BVU-950  
 BVU-950P



SW-171

## SW-171; SELECT SWITCH





AU-87; MIC/OUTPUT/MONITOR AMPLIFIER

AU-87 (1-622-703-11)

|       |     |      |
|-------|-----|------|
| CN870 | C-1 | T2   |
| CN871 | B-1 | T101 |
| CN872 | A-1 | T102 |
| CN873 | C-1 | T103 |
| CN874 | E-1 |      |
| CN875 | D-1 |      |
| CN876 | D-1 |      |
| CN877 | C-2 |      |
| CN878 | C-1 |      |
| CN879 | C-2 |      |

|      |     |
|------|-----|
| D101 | E-2 |
| D102 | E-2 |
| D103 | E-2 |
| D104 | E-2 |
| D105 | D-2 |
| D106 | D-2 |
| D107 | D-2 |
| D108 | D-2 |
| D109 | D-2 |
| D201 | C-2 |
| D203 | C-2 |
| D204 | C-2 |
| D205 | C-1 |

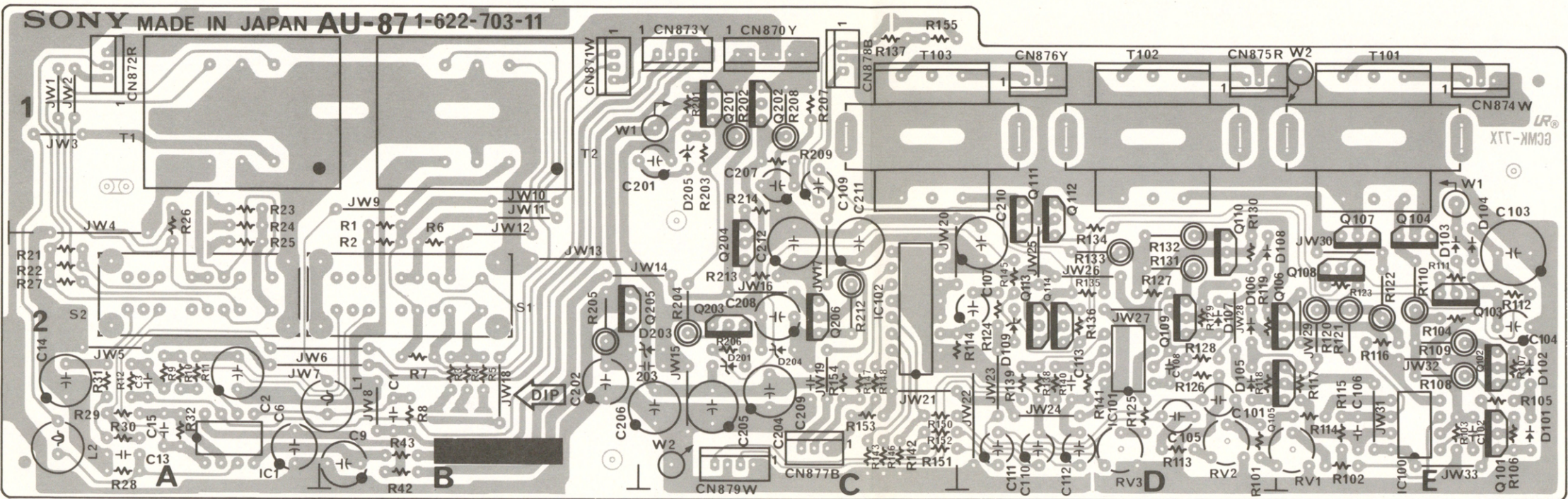
|       |     |
|-------|-----|
| IC1   | A-2 |
| IC100 | E-2 |
| IC101 | D-2 |
| IC102 | C-2 |

|      |     |
|------|-----|
| Q101 | E-2 |
| Q102 | E-2 |
| Q103 | E-2 |
| Q104 | E-1 |
| Q105 | E-2 |
| Q106 | E-2 |
| Q107 | E-1 |
| Q108 | E-2 |
| Q109 | D-2 |
| Q110 | D-2 |
| Q111 | D-1 |
| Q112 | D-1 |
| Q113 | D-2 |
| Q114 | D-2 |
| Q201 | C-1 |
| Q202 | C-1 |
| Q203 | C-2 |
| Q204 | C-2 |
| Q205 | B-2 |
| Q206 | C-2 |

|     |     |
|-----|-----|
| RV1 | E-2 |
| RV2 | D-2 |
| RV3 | D-2 |

|    |     |
|----|-----|
| S1 | B-2 |
| S2 | A-2 |

|    |     |
|----|-----|
| T1 | B-1 |
|----|-----|



AU-87 COMPONENT SIDE  
1-622-703-11(1)  
BVU-950  
BVU-950P

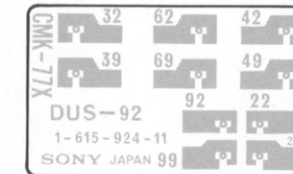


DUS-92; AUDIO HEAD

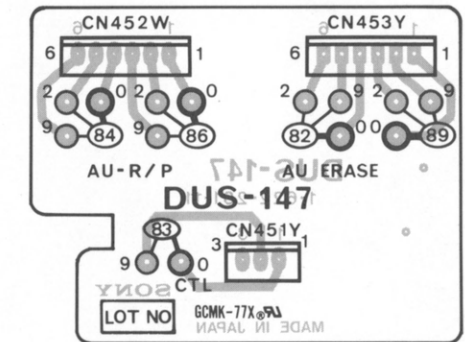
DUS-147; JUNCTION BOARD FOR AUDIO HEAD

HP-28; HEADPHONES

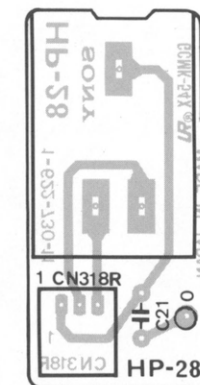
VR-49; HEADPHONES LEVEL CONTROL



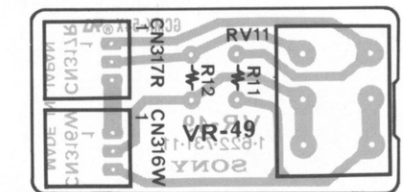
**DUS-92** —COMPONENT SIDE—  
 1-615-924-11(1)  
 BVU-950  
 BVU-950P



**DUS-147** —COMPONENT SIDE—  
 1-622-261-11(1)  
 BVU-950  
 BVU-950P



**HP-28** —COMPONENT SIDE—  
 1-622-730-11(1)  
 BVU-950  
 BVU-950P



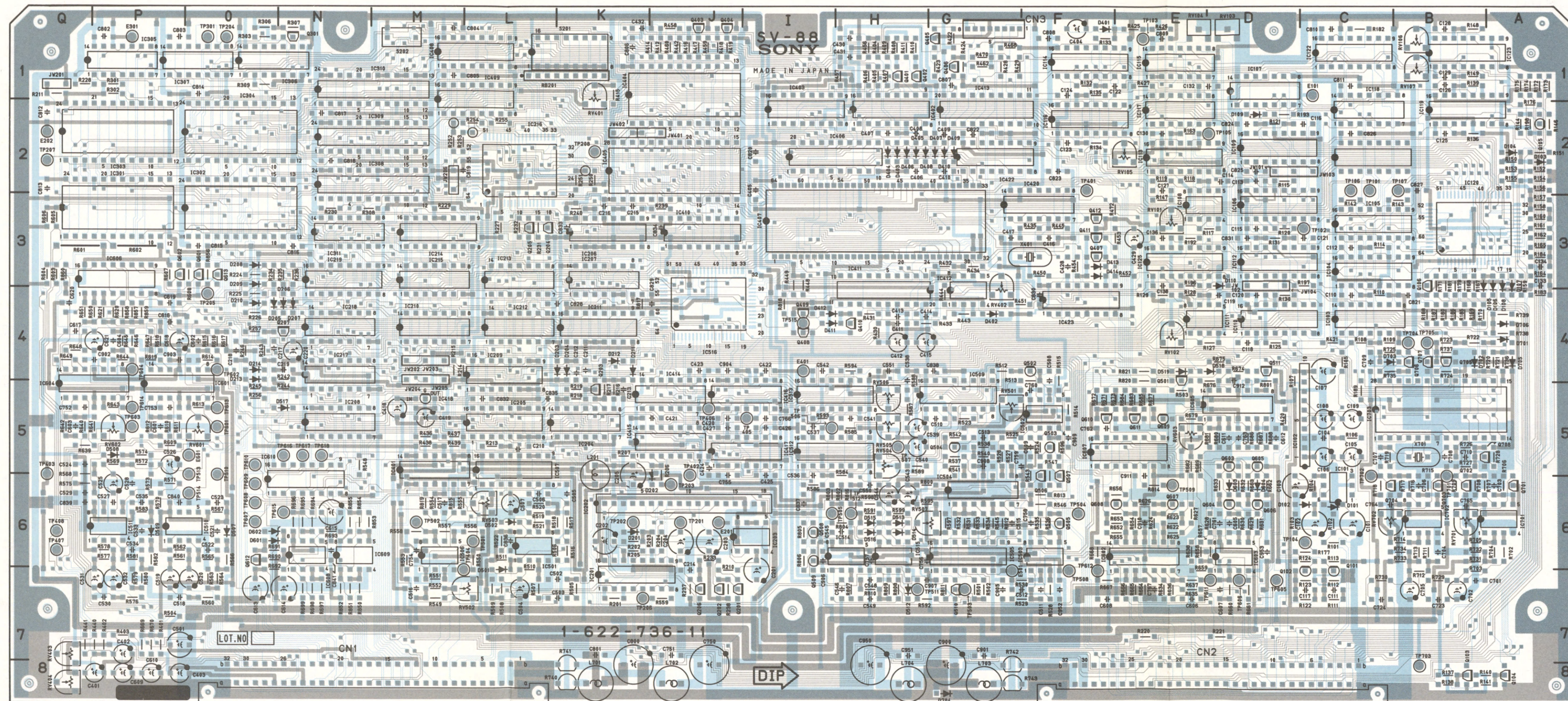
**VR-49** —COMPONENT SIDE—  
 1-622-731-11(1)  
 BVU-950  
 BVU-950P



## SV-88; DRUM/CAPSTAN/REEL SERVO

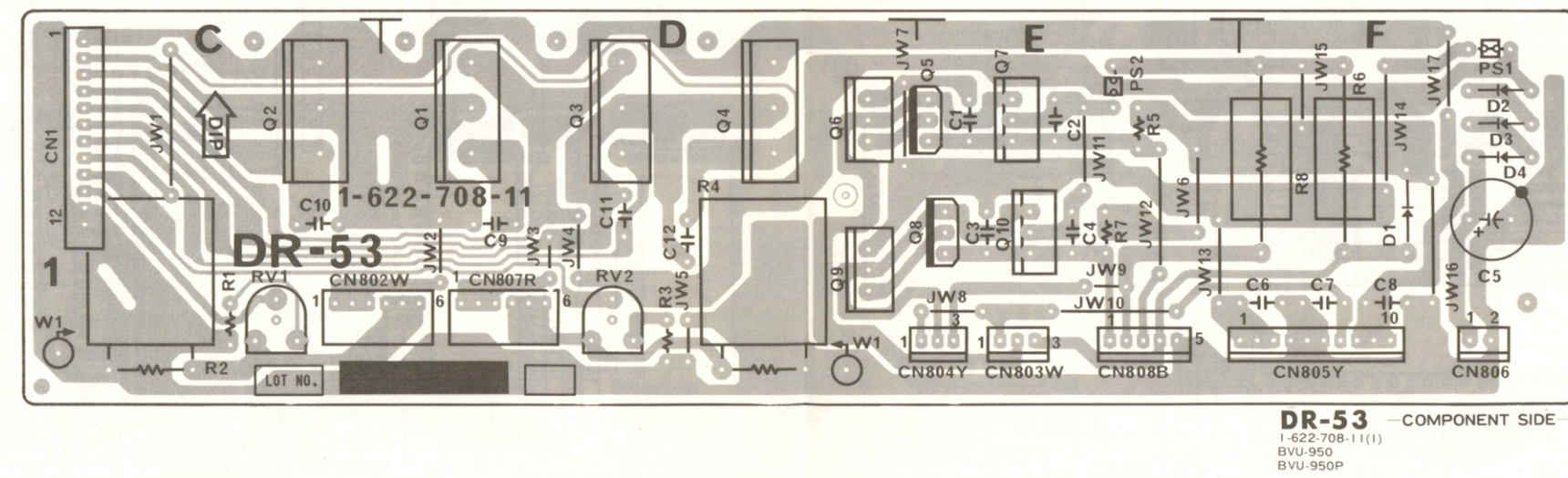
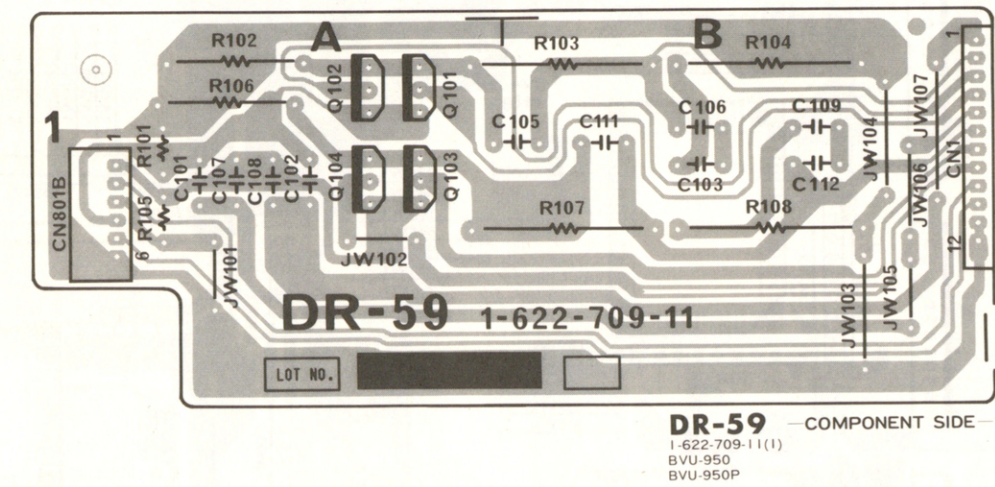
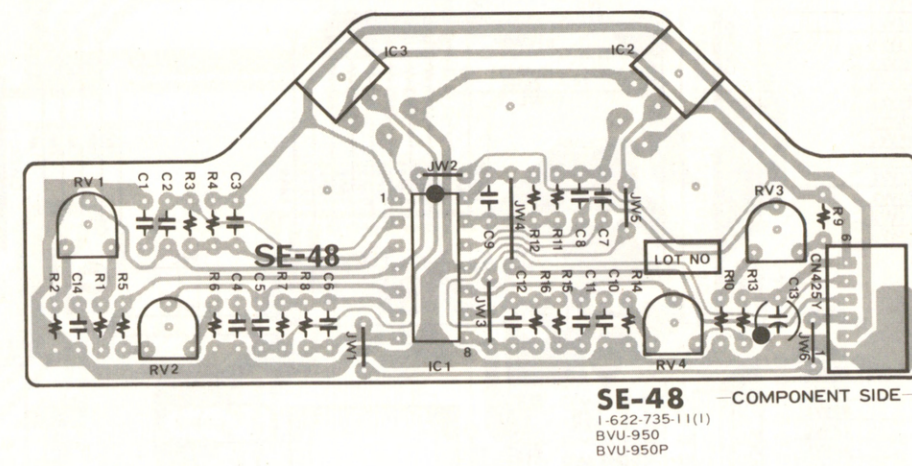
SV-88 (1-622-736-11)

|      |     |       |     |       |     |       |     |       |     |       |     |
|------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| CN1  | N-8 | D701  | A-4 | IC304 | Q-2 | Q105  | A-2 | RV404 | Q-8 | TP606 | D-7 |
| CN2  | E-8 | D702  | B-4 | IC305 | P-1 | Q106  | B-3 | RV501 | G-5 | TP607 | O-6 |
| CN3  | G-1 | D704  | G-8 | IC306 | O-1 | Q201  | J-7 | RV502 | L-7 | TP608 | O-6 |
|      |     | D705  | A-4 | IC307 | O-1 | Q202  | J-7 | RV503 | L-6 | TP609 | O-6 |
| D101 | C-6 | D706  | A-4 | IC308 | M-2 | Q203  | K-5 | RV504 | H-5 | TP610 | O-5 |
| D102 | D-6 |       |     | IC309 | M-2 | Q204  | L-3 | RV505 | H-5 | TP611 | E-7 |
| D103 | A-2 | E101  | C-1 | IC310 | M-1 | Q205  | L-3 | RV506 | H-5 | TP612 | F-7 |
| D104 | A-2 | E201  | J-6 | IC311 | N-3 | Q206  | J-7 | RV507 | H-6 | TP613 | O-5 |
| D105 | B-3 | E202  | Q-2 | IC401 | M-5 | Q207  | N-4 | RV601 | O-5 | TP614 | P-5 |
| D106 | A-3 | E301  | P-1 | IC402 | H-2 | Q301  | N-1 | RV602 | P-5 | TP615 | O-6 |
| D107 | A-3 | E401  | I-4 | IC403 | I-2 | Q401  | H-1 | RV603 | E-5 | TP616 | N-5 |
| D108 | A-3 | E501  | G-7 | IC404 | J-1 | Q402  | H-1 |       |     | TP617 | N-5 |
| D109 | D-2 | E601  | O-5 | IC405 | J-2 | Q403  | J-1 | S201  | K-1 | TP618 | N-5 |
| D110 | D-3 |       |     | IC406 | I-2 | Q404  | J-1 | S202  | M-1 | TP703 | B-8 |
| D201 | K-6 | IC101 | C-6 | IC407 | I-3 | Q405  | G-1 |       |     |       |     |
| D202 | K-6 | IC102 | D-5 | IC408 | L-1 | Q406  | G-1 | TP101 | C-2 | X401  | F-3 |
| D203 | K-4 | IC103 | C-4 | IC409 | L-1 | Q407  | F-3 | TP102 | C-3 |       |     |
| D204 | K-4 | IC104 | C-3 | IC410 | J-3 | Q408  | I-4 | TP103 | E-1 |       |     |
| D205 | O-4 | IC105 | C-3 | IC411 | H-3 | Q409  | I-4 | TP104 | D-6 |       |     |
| D206 | N-4 | IC106 | D-3 | IC412 | G-3 | Q410  | H-4 | TP105 | D-2 |       |     |
| D207 | N-4 | IC107 | D-1 | IC413 | G-2 | Q411  | F-3 | TP106 | C-2 |       |     |
| D208 | O-3 | IC108 | E-3 | IC414 | J-5 | Q412  | F-3 | TP107 | B-2 |       |     |
| D209 | O-3 | IC109 | D-2 | IC415 | J-5 | Q501  | E-5 | TP201 | J-6 |       |     |
| D210 | O-4 | IC110 | D-4 | IC416 | I-5 | Q502  | F-4 | TP202 | K-6 |       |     |
| D211 | K-4 | IC111 | E-4 | IC417 | I-5 | Q503  | F-5 | TP203 | J-6 |       |     |
| D212 | K-4 | IC112 | D-3 | IC418 | M-5 | Q504  | G-5 | TP204 | O-1 |       |     |
| D213 | O-5 | IC113 | E-2 | IC420 | F-3 | Q505  | F-6 | TP205 | O-4 |       |     |
| D214 | O-4 | IC114 | F-1 | IC422 | G-2 | Q506  | F-6 | TP206 | K-7 |       |     |
| D401 | F-1 | IC115 | E-1 | IC423 | F-4 | Q507  | F-6 | TP207 | Q-2 |       |     |
| D402 | G-4 | IC116 | F-2 | IC501 | L-6 | Q508  | I-6 | TP208 | K-2 |       |     |
| D403 | H-2 | IC117 | E-2 | IC502 | F-5 | Q509  | I-6 | TP301 | O-1 |       |     |
| D404 | H-2 | IC118 | C-2 | IC503 | F-6 | Q510  | G-7 | TP401 | F-2 |       |     |
| D405 | H-2 | IC119 | B-2 | IC504 | G-6 | Q511  | D-4 | TP402 | J-5 |       |     |
| D406 | H-2 | IC120 | B-3 | IC505 | G-6 | Q601  | O-3 | TP403 | Q-5 |       |     |
| D407 | G-2 | IC122 | C-1 | IC506 | M-6 | Q602  | P-3 | TP404 | M-7 |       |     |
| D408 | H-2 | IC123 | B-1 | IC507 | L-5 | Q603  | D-5 | TP405 | I-5 |       |     |
| D409 | G-2 | IC125 | E-3 | IC509 | G-5 | Q604  | D-6 | TP406 | J-5 |       |     |
| D410 | G-2 | IC201 | K-7 | IC510 | O-6 | Q605  | D-5 | TP407 | Q-6 |       |     |
| D411 | I-4 | IC202 | J-6 | IC511 | P-6 | Q606  | D-6 | TP408 | Q-6 |       |     |
| D412 | I-4 | IC203 | I-6 | IC512 | I-5 | Q607  | E-6 | TP501 | L-6 |       |     |
| D413 | F-3 | IC204 | K-5 | IC513 | I-5 | Q608  | F-6 | TP502 | M-6 |       |     |
| D414 | F-3 | IC205 | L-5 | IC514 | H-6 | Q609  | E-5 | TP503 | G-7 |       |     |
| D501 | L-7 | IC206 | K-3 | IC515 | H-6 | Q610  | F-5 | TP504 | F-6 |       |     |
| D502 | L-6 | IC207 | K-3 | IC516 | J-4 | Q611  | E-5 | TP505 | I-6 |       |     |
| D507 | O-6 | IC208 | N-5 | IC601 | O-5 | Q612  | O-6 | TP506 | I-5 |       |     |
| D508 | P-5 | IC209 | L-4 | IC602 | E-6 | Q613  | O-3 | TP507 | H-5 |       |     |
| D509 | P-6 | IC210 | M-4 | IC603 | D-6 |       |     | TP508 | F-7 |       |     |
| D512 | H-7 | IC211 | K-4 | IC604 | Q-5 | RB201 | K-1 | TP509 | E-6 |       |     |
| D513 | H-6 | IC212 | L-4 | IC605 | D-5 |       |     | TP510 | O-6 |       |     |
| D514 | H-6 | IC213 | L-3 | IC606 | P-3 | RV101 | E-3 | TP511 | H-7 |       |     |
| D515 | H-6 | IC214 | M-3 | IC607 | F-5 | RV102 | E-4 | TP512 | H-6 |       |     |
| D516 | H-6 | IC215 | M-3 | IC608 | N-6 | RV103 | D-1 | TP513 | O-6 |       |     |
| D517 | N-5 | IC216 | L-2 | IC609 | N-6 | RV104 | E-1 | TP514 | O-6 |       |     |
| D518 | D-4 | IC217 | N-4 | IC610 | N-6 | RV105 | E-2 | TP515 | I-4 |       |     |
| D519 | E-4 | IC218 | N-4 |       |     | RV106 | B-1 | TP601 | O-5 |       |     |
| D601 | O-6 | IC219 | N-3 | Q101  | C-6 | RV107 | B-1 | TP602 | O-4 |       |     |
| D602 | O-6 | IC301 | P-3 | Q102  | D-7 | RV401 | K-1 | TP603 | P-5 |       |     |
| D603 | D-6 | IC302 | O-3 | Q103  | B-8 | RV402 | G-3 | TP604 | P-4 |       |     |
| D604 | D-6 | IC303 | P-2 | Q104  | A-8 | RV403 | Q-7 | TP605 | D-7 |       |     |



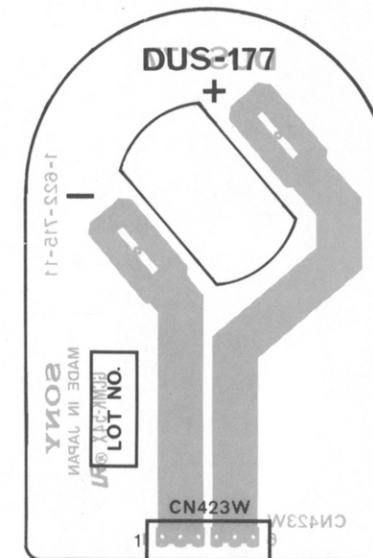


DR-53; REEL/CAPSTAN/DRUM MOTOR DRIVE  
DR-59; REEL MOTOR DRIVE  
SE-48; REEL ROTATION DETECTOR

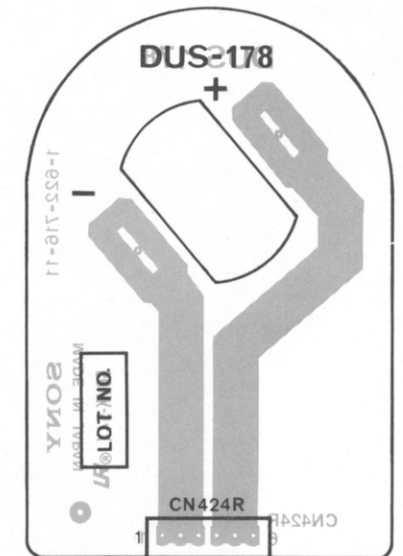




DUS-177; T-REEL MOTOR  
 DUS-178; S-REEL MOTOR  
 LE-53; S-TENSION LED  
 LE-54; T-TENSION LED  
 PTC-28; S-TENSION CDS  
 PTC-29; T-TENSION CDS



**DUS-177** — COMPONENT SIDE —  
 I-622-715-11(1)  
 BVU-950  
 BVU-950P



**DUS-178** — COMPONENT SIDE —  
 I-622-716-11(1)  
 BVU-950  
 BVU-950P



**LE-53** — COMPONENT SIDE —  
 I-622-720-11(1)  
 BVU-950  
 BVU-950P



**LE-54** — COMPONENT SIDE —  
 I-622-717-11(1)  
 BVU-950  
 BVU-950P



**PTC-28** — COMPONENT SIDE —  
 I-622-722-11(1)  
 BVU-950  
 BVU-950P



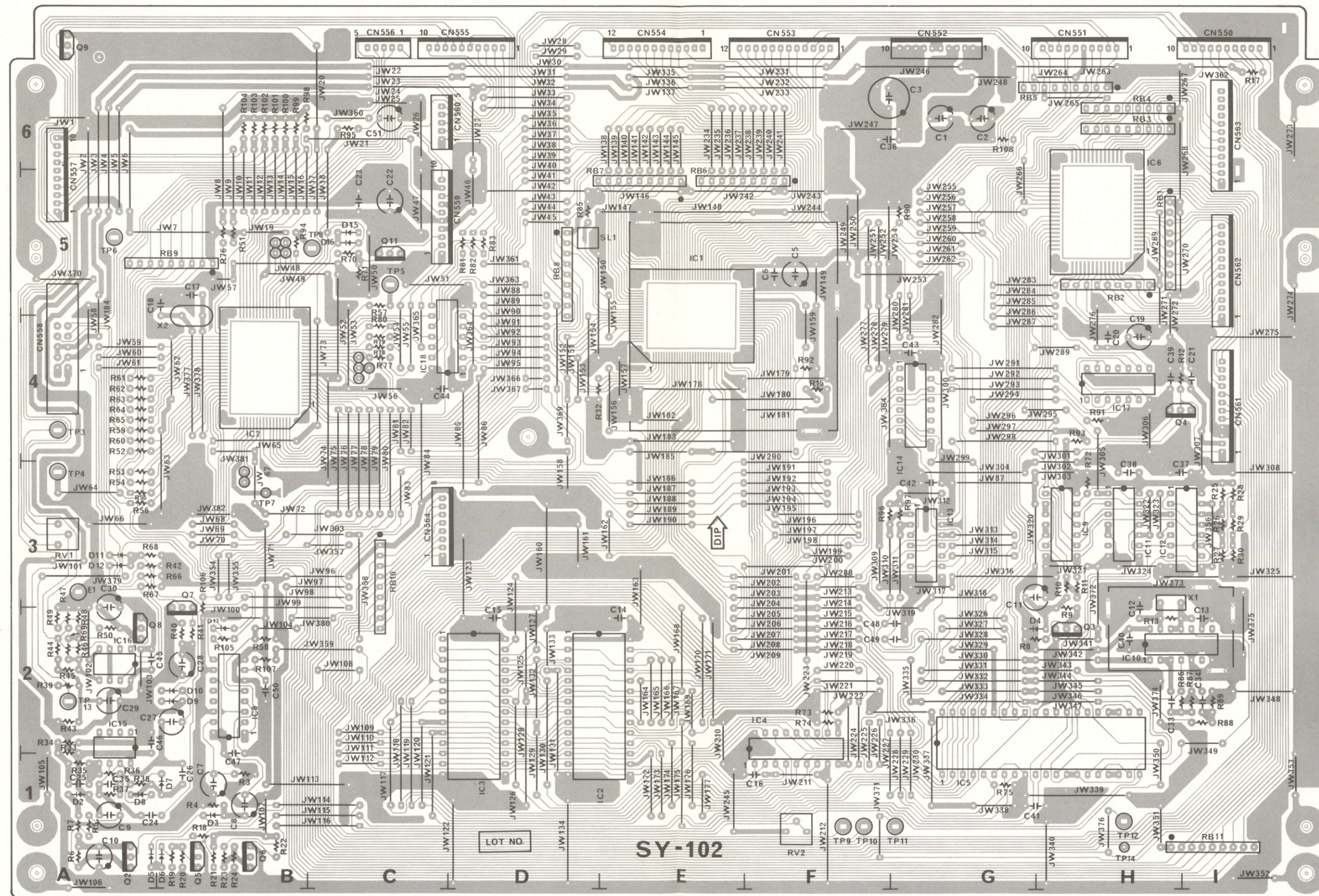
**PTC-29** — COMPONENT SIDE —  
 I-622-718-11(1)  
 BVU-950  
 BVU-950P



## SY-102; SYSTEM CONTROL

SY-102 (1-622-734-11)

|       |     |      |     |
|-------|-----|------|-----|
| CN550 | I-6 | Q9   | A-6 |
| CN551 | H-6 | Q11  | C-5 |
| CN552 | G-6 |      |     |
| CN553 | F-6 | RB1  | H-5 |
| CN554 | E-6 | RB2  | H-5 |
| CN555 | D-6 | RB3  | H-6 |
| CN556 | C-6 | RB4  | H-6 |
| CN557 | A-5 | RB5  | H-6 |
| CN558 | A-4 | RB6  | E-5 |
| CN559 | C-5 | RB7  | E-5 |
| CN560 | C-6 | RB8  | D-5 |
| CN561 | I-4 | RB9  | B-5 |
| CN562 | I-5 | RB10 | C-3 |
| CN563 | I-6 | RB11 | I-1 |
| CN564 | C-3 |      |     |
| D2    | A-1 | RV1  | A-3 |
| D3    | B-1 | RV2  | F-1 |
| D4    | G-2 | TP3  | A-4 |
| D5    | A-1 | TP4  | A-3 |
| D6    | B-1 | TP5  | C-5 |
| D7    | B-1 | TP6  | A-5 |
| D8    | A-1 | TP7  | B-3 |
| D9    | B-2 | TP8  | C-5 |
| D10   | B-2 | TP9  | F-1 |
| D11   | A-3 | TP10 | F-1 |
| D12   | A-3 | TP11 | G-1 |
| D15   | C-5 | TP12 | H-1 |
| D16   | C-5 | TP13 | A-2 |
| D17   | B-2 | TP14 | H-1 |
| E1    | A-3 | X1   | H-3 |
|       |     | X2   | A-4 |
| IC1   | E-5 |      |     |
| IC2   | D-2 |      |     |
| IC3   | D-2 |      |     |
| IC4   | F-2 |      |     |
| IC5   | G-1 |      |     |
| IC6   | H-5 |      |     |
| IC7   | B-4 |      |     |
| IC8   | B-2 |      |     |
| IC9   | H-3 |      |     |
| IC10  | H-2 |      |     |
| IC11  | H-3 |      |     |
| IC12  | I-3 |      |     |
| IC13  | G-3 |      |     |
| IC14  | G-4 |      |     |
| IC15  | A-2 |      |     |
| IC16  | A-2 |      |     |
| IC17  | H-4 |      |     |
| IC18  | C-4 |      |     |
| Q2    | A-1 |      |     |
| Q3    | H-2 |      |     |
| Q4    | I-4 |      |     |
| Q5    | B-1 |      |     |
| Q6    | B-1 |      |     |
| Q7    | B-3 |      |     |
| Q8    | A-2 |      |     |



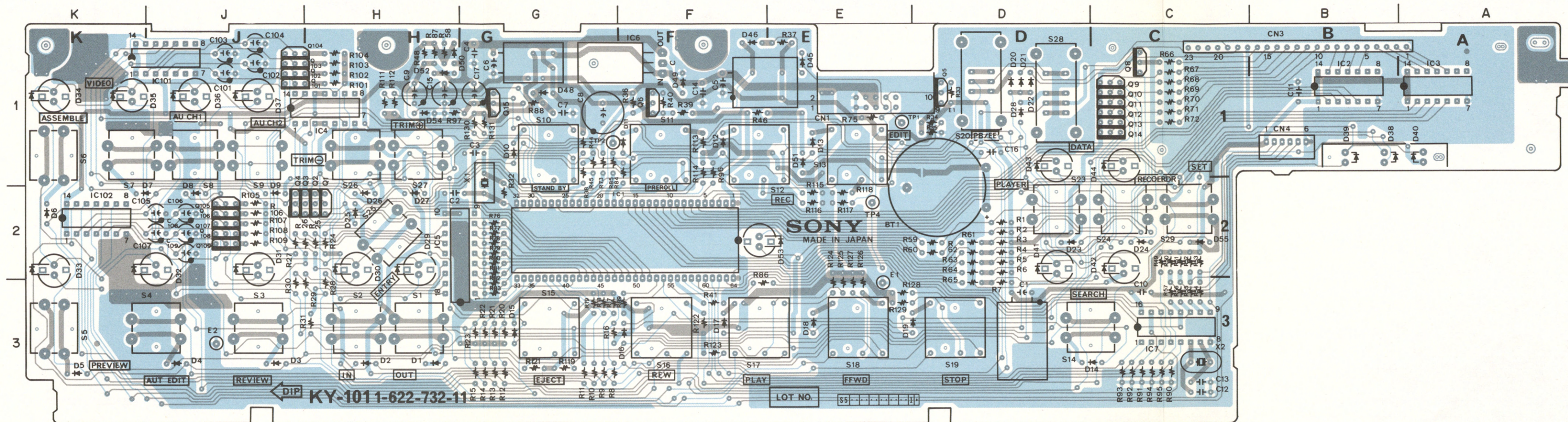
SY-102/A — COMPONENT SIDE —  
1-622-734-11(1)  
BVU-950  
BVU-950P



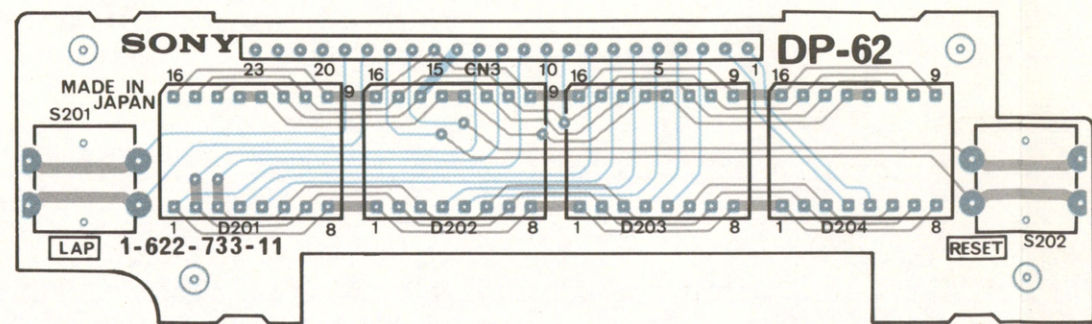
KY-101; FUNCTION KEY BOARD  
DP-62; DISPLAY

KY-101 (1-622-732-11)

|     |     |       |     |     |     |
|-----|-----|-------|-----|-----|-----|
| CN1 | E-1 | E1    | E-3 | S25 | H-2 |
| CN3 | B-1 | E2    | J-3 | S26 | H-1 |
| CN4 | B-1 |       |     | S27 | H-1 |
|     |     | IC1   | F-2 | S28 | D-1 |
| D1  | H-3 | IC2   | B-1 | S29 | C-2 |
| D2  | H-3 | IC3   | A-1 |     |     |
| D3  | J-3 | IC4   | H-1 | TP1 | E-1 |
| D4  | J-3 | IC5   | H-2 | TP2 | G-1 |
| D5  | K-3 | IC6   | F-1 | TP4 | E-2 |
| D6  | K-2 | IC7   | C-3 |     |     |
| D7  | K-2 | IC101 | J-1 | X1  | G-2 |
| D8  | J-2 | IC102 | K-2 | X2  | C-3 |
| D9  | J-2 |       |     |     |     |
| D10 | G-1 | Q1    | H-2 |     |     |
| D11 | F-1 | Q2    | H-2 |     |     |
| D12 | F-1 | Q3    | J-2 |     |     |
| D13 | E-1 | Q4    | J-2 |     |     |
| D14 | D-3 | Q5    | D-1 |     |     |
| D15 | G-3 | Q6    | F-1 |     |     |
| D16 | F-3 | Q8    | C-1 |     |     |
| D17 | F-3 | Q9    | C-1 |     |     |
| D18 | E-3 | Q10   | C-1 |     |     |
| D19 | E-3 | Q11   | C-1 |     |     |
| D20 | D-1 | Q12   | C-1 |     |     |
| D21 | D-1 | Q13   | C-1 |     |     |
| D22 | D-1 | Q14   | C-1 |     |     |
| D23 | D-2 | Q15   | G-1 |     |     |
| D24 | C-2 | Q101  | J-1 |     |     |
| D25 | H-2 | Q102  | J-1 |     |     |
| D26 | H-2 | Q103  | J-1 |     |     |
| D27 | H-2 | Q104  | J-1 |     |     |
| D28 | D-1 | Q105  | J-2 |     |     |
| D29 | H-2 | Q106  | J-2 |     |     |
| D30 | H-2 | Q107  | J-2 |     |     |
| D31 | J-2 | Q108  | J-2 |     |     |
| D32 | K-2 | Q109  | J-2 |     |     |
| D33 | K-2 |       |     |     |     |
| D34 | K-1 | S1    | H-3 |     |     |
| D35 | K-1 | S2    | H-3 |     |     |
| D36 | J-1 | S3    | J-3 |     |     |
| D37 | J-1 | S4    | J-3 |     |     |
| D38 | B-1 | S5    | K-3 |     |     |
| D39 | B-1 | S6    | K-1 |     |     |
| D40 | A-1 | S7    | K-1 |     |     |
| D41 | D-2 | S8    | J-1 |     |     |
| D42 | C-2 | S9    | J-1 |     |     |
| D43 | D-1 | S10   | G-1 |     |     |
| D44 | C-1 | S11   | F-1 |     |     |
| D45 | E-1 | S12   | F-1 |     |     |
| D46 | F-1 | S13   | E-1 |     |     |
| D48 | G-1 | S14   | D-3 |     |     |
| D49 | F-1 | S15   | G-3 |     |     |
| D50 | H-1 | S16   | F-3 |     |     |
| D51 | E-1 | S17   | F-3 |     |     |
| D52 | H-1 | S18   | E-3 |     |     |
| D53 | E-2 | S19   | D-3 |     |     |
| D54 | H-1 | S20   | D-1 |     |     |
| D55 | C-2 | S23   | D-2 |     |     |
|     |     | S24   | C-2 |     |     |



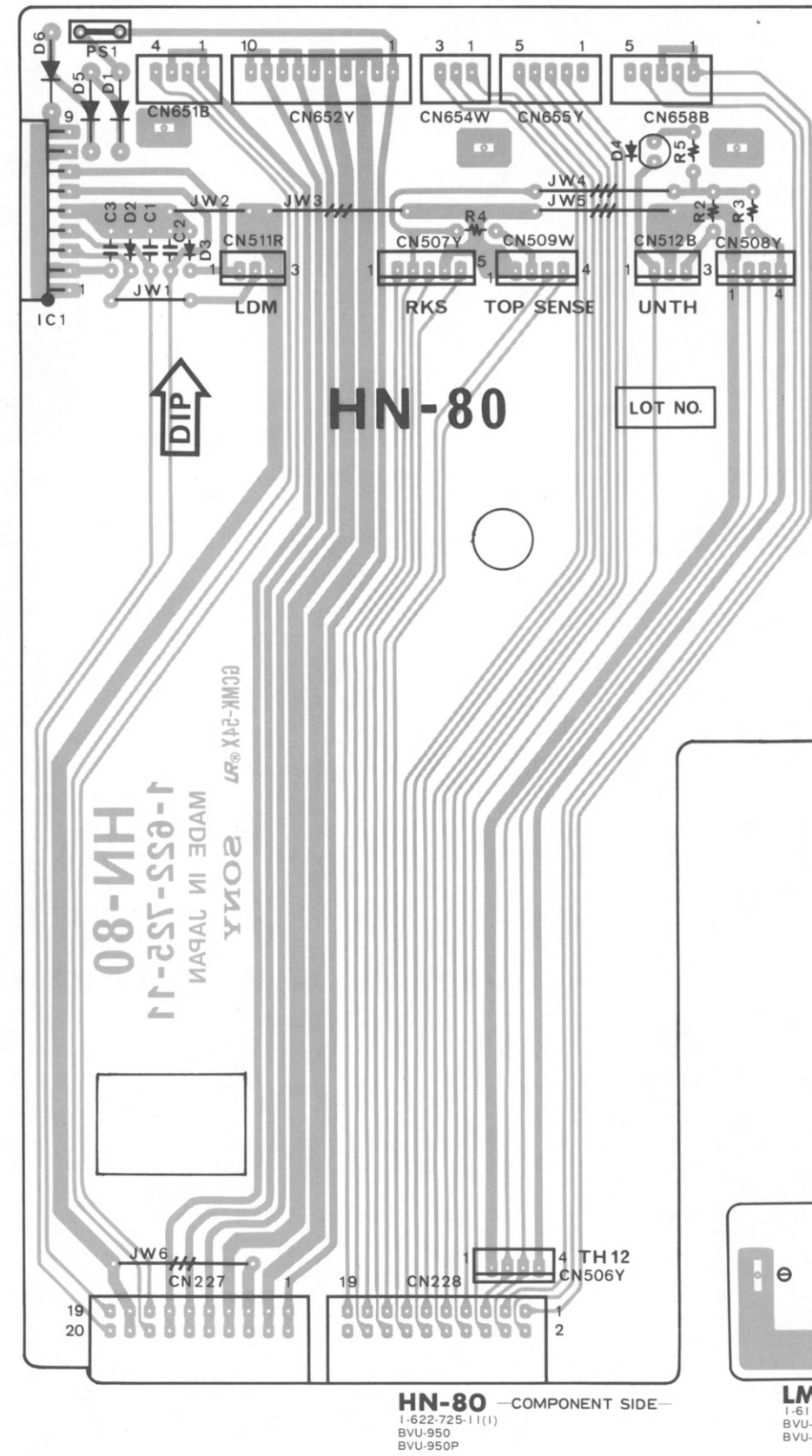
KY-101 — COMPONENT SIDE —  
1-622-732-11(1)  
BVU-950  
BVU-950P



DP-62 — COMPONENT SIDE —  
1-622-733-11(1)  
BVU-950  
BVU-950P

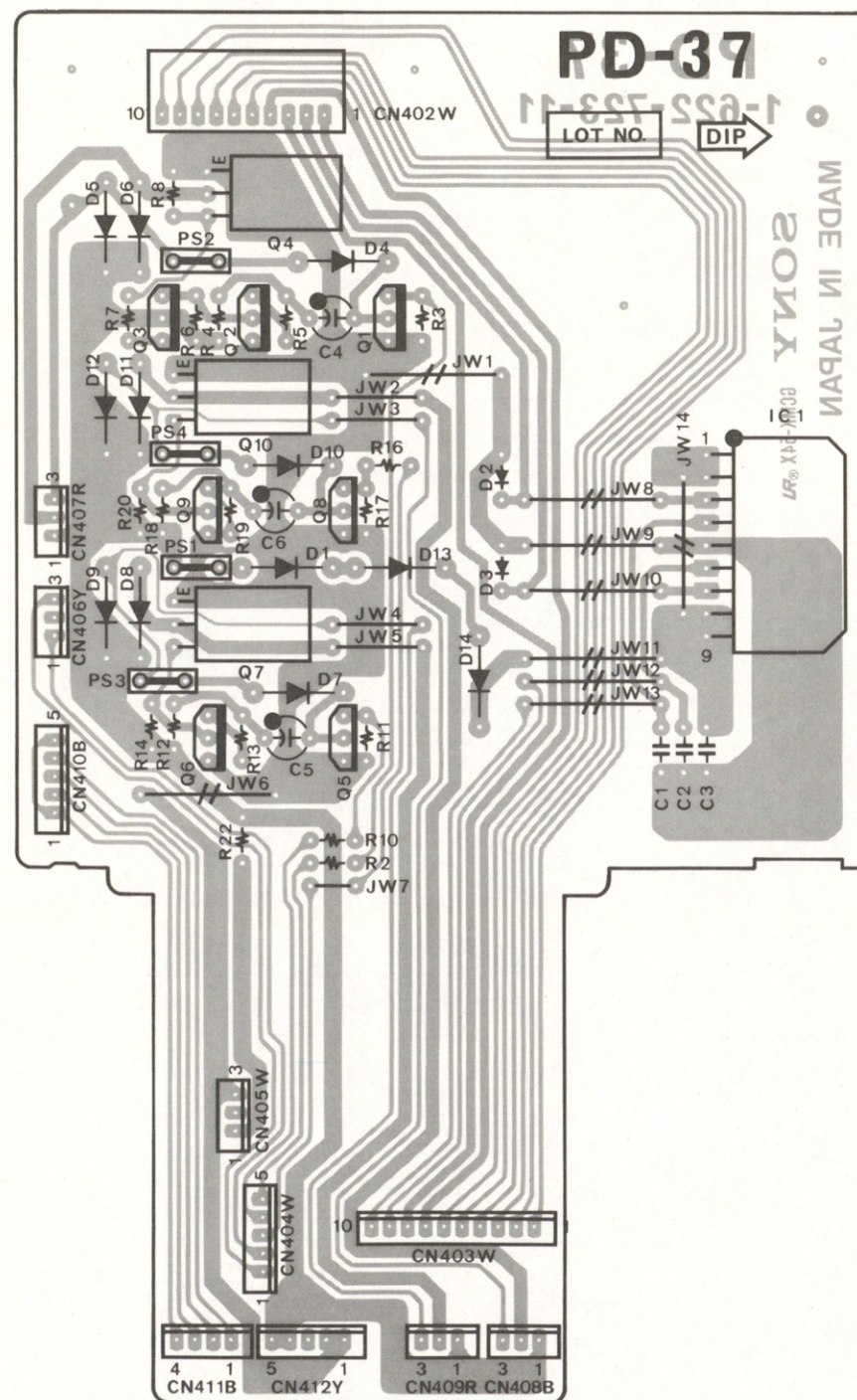


HN-80;    THREADING MOTOR DRIVER  
LM-13;    THREADING MOTOR

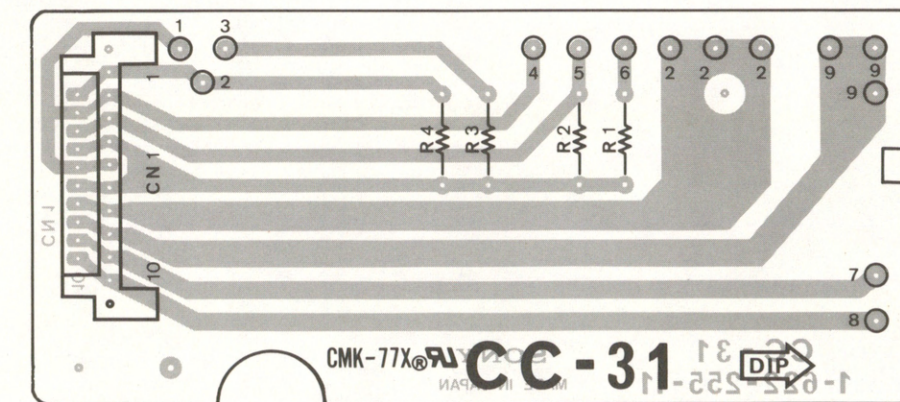




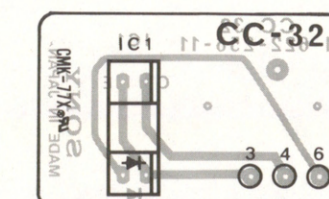
PD-37; CASSETTE-UP COMPARTMENT MOTOR DRIVER /SOLENOID DRIVER  
 CC-31; CASSETTE COMPARTMENT DRIVER  
 CC-32; CASSETTE IN DETECTOR  
 CC-33; CASSETTE DOWN DETECTOR



**PD-37** — COMPONENT SIDE —  
 1-622-723-1 (1)  
 BVU-950  
 BVU-950P



**CC-31** — COMPONENT SIDE —  
 1-622-255-1 (1)  
 BVU-950  
 BVU-950P



**CC-32** — COMPONENT SIDE —  
 1-622-256-1 (1)  
 BVU-950  
 BVU-950P



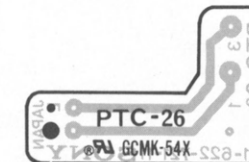
**CC-33** — COMPONENT SIDE —  
 1-622-257-1 (1)  
 BVU-950  
 BVU-950P



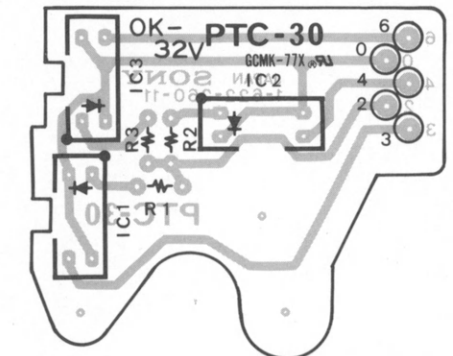
- PH-5(A); TAPE TOP LED
- PH-5(B); TAPE TOP SENSOR
- PH-5(C); TAPE END LED
- PTC-26; TAPE END SENSOR
- PTC-30; SP, MISS REC. KCA DETECTOR
- PTC-32; SEARCH DIAL
- PTC-33; FR STOP DETECTOR
- PTC-34; UNTHREAD END DETECTOR



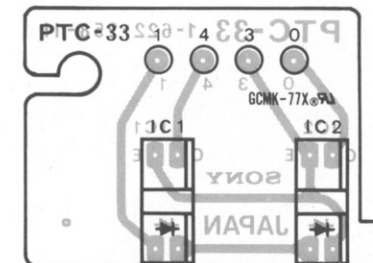
**PH-5(A), (B), (C)**  
— COMPONENT SIDE —  
1-603-737-11(I)  
BVU-950  
BVU-950P



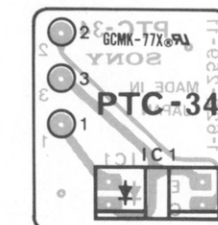
**PTC-26** — COMPONENT SIDE —  
1-622-721-11(I)  
BVU-950  
BVU-950P



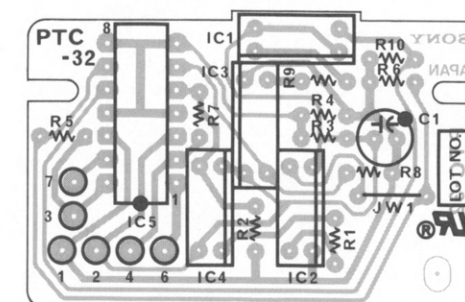
**PTC-30** — COMPONENT SIDE —  
1-622-260-11(I)  
BVU-950  
BVU-950P



**PTC-33** — COMPONENT SIDE —  
1-622-258-11(I)  
BVU-950  
BVU-950P



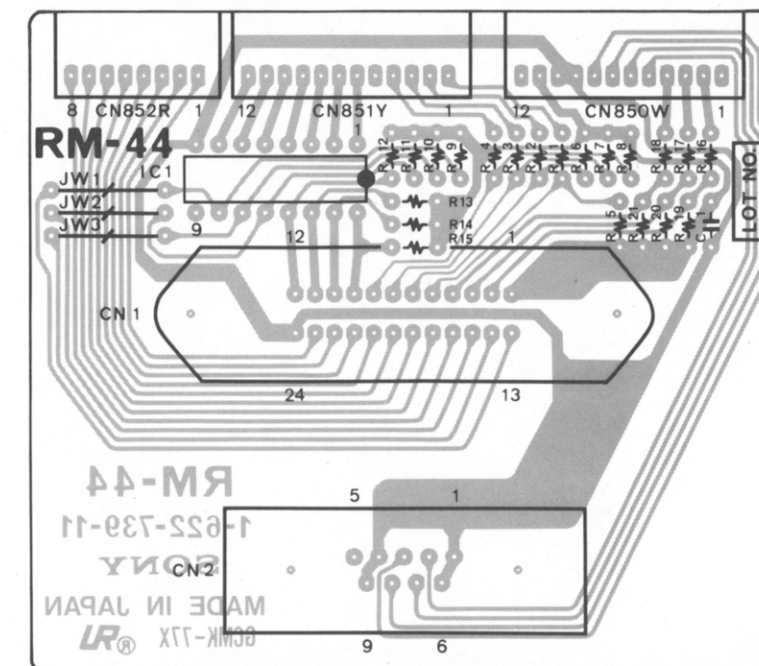
**PTC-34** — COMPONENT SIDE —  
1-622-259-11(I)  
BVU-950  
BVU-950P



**PTC-32** — COMPONENT SIDE —  
1-622-638-11(I)  
BVU-950  
BVU-950P



RM-44; REMOTE CONTROL(9PIN & 24PIN)



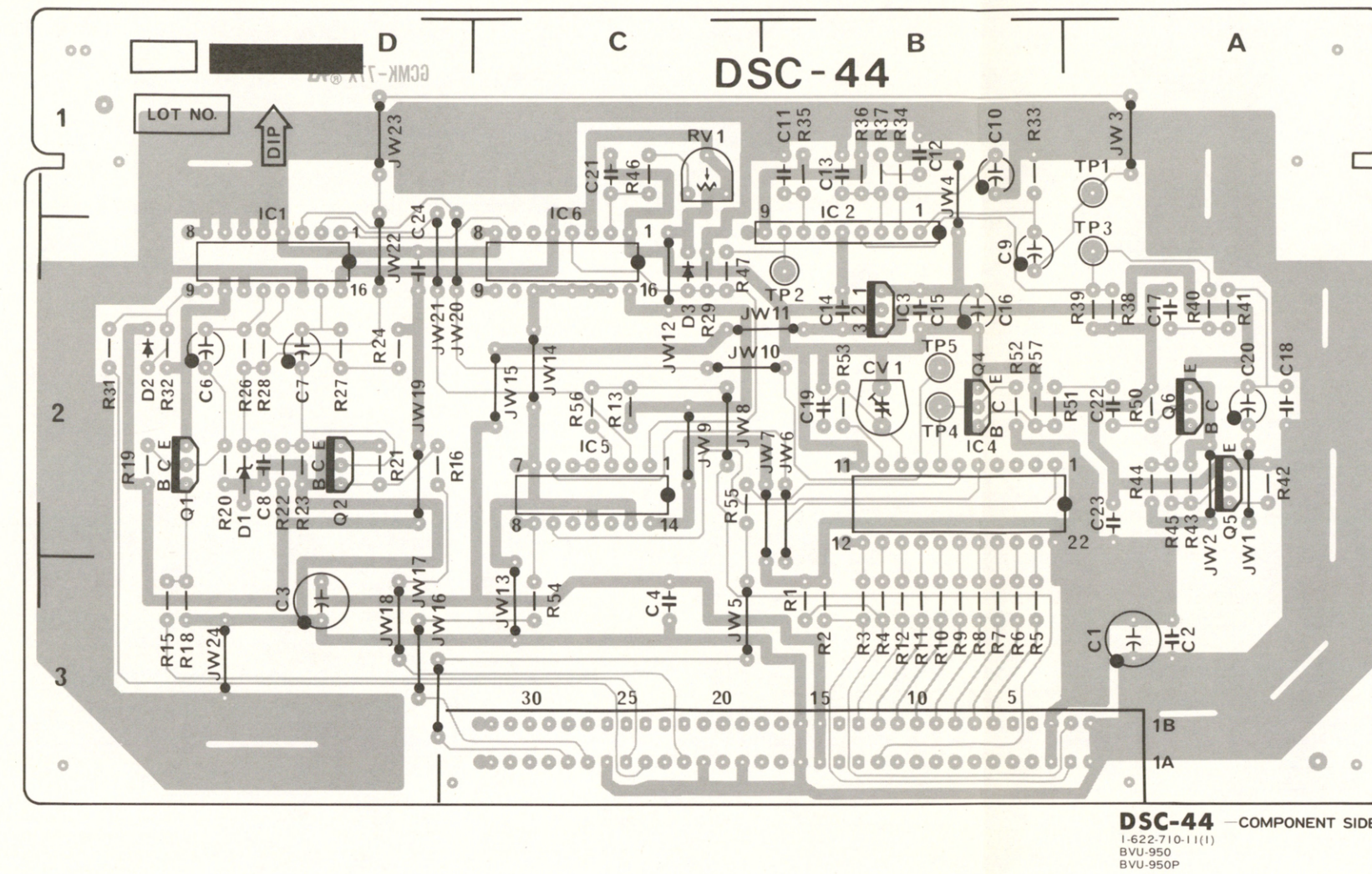
RM-44 — COMPONENT SIDE —  
I-622-739-11(1)  
BVU-950  
BVU-950P



DSC-44; CHARACTER GENERATOR

DSC-44 (1-622-710-11)

|     |     |
|-----|-----|
| CV1 | B-2 |
| D1  | D-2 |
| D2  | D-2 |
| D3  | C-2 |
| IC1 | D-2 |
| IC2 | B-2 |
| IC3 | B-2 |
| IC4 | B-2 |
| IC5 | C-2 |
| IC6 | C-2 |
| Q1  | D-2 |
| Q2  | D-2 |
| Q4  | B-2 |
| Q5  | A-2 |
| Q6  | A-2 |
| RV1 | C-1 |
| TP1 | A-1 |
| TP2 | B-2 |
| TP3 | A-2 |
| TP4 | B-2 |
| TP5 | B-2 |





BC-11; VIDEO/AUDIO TIMING CONTROL, TIME CODE REC/PB AMPLIFIER, FULL ERASE OSCILLATOR  
HN-84; TIME CODE HEAD

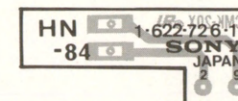
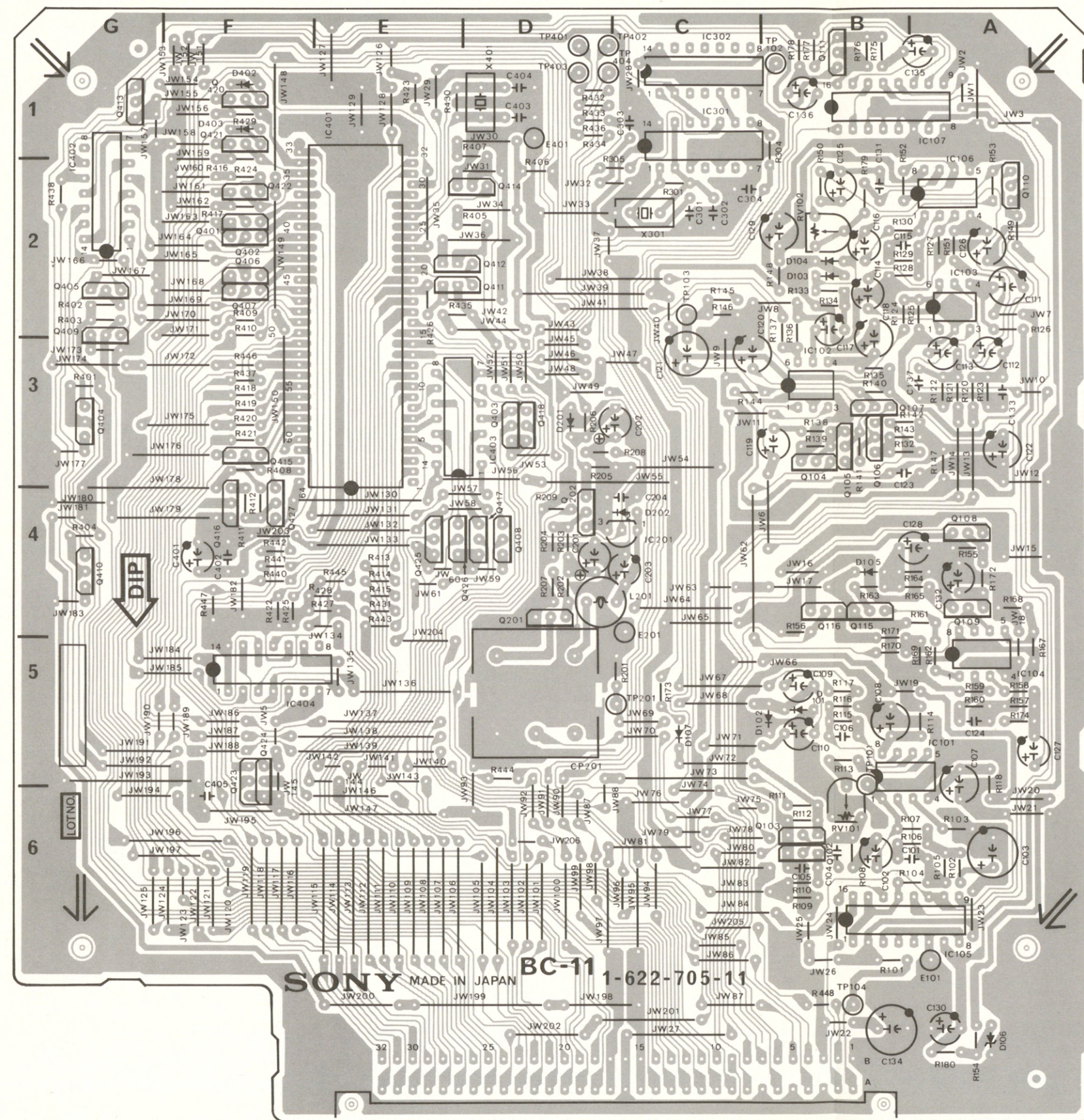
BC-11 (1-622-705-11)

|       |     |      |     |
|-------|-----|------|-----|
| CP201 | D-5 | Q414 | D-2 |
| D101  | B-5 | Q415 | F-3 |
| D102  | C-5 | Q416 | F-4 |
| D103  | B-2 | Q417 | D-4 |
| D104  | B-2 | Q418 | D-3 |
| D105  | B-4 | Q420 | F-1 |
| D106  | A-6 | Q421 | F-1 |
| D107  | C-5 | Q422 | F-2 |
| D201  | D-3 | Q423 | F-5 |
| D202  | C-4 | Q424 | F-5 |
| D402  | F-1 | Q425 | E-4 |
| D403  | F-1 | Q426 | E-4 |
|       |     | Q427 | F-4 |

|      |     |       |     |
|------|-----|-------|-----|
| E101 | A-6 |       |     |
| E201 | C-4 | RV101 | B-6 |
| E401 | D-1 | RV102 | B-2 |

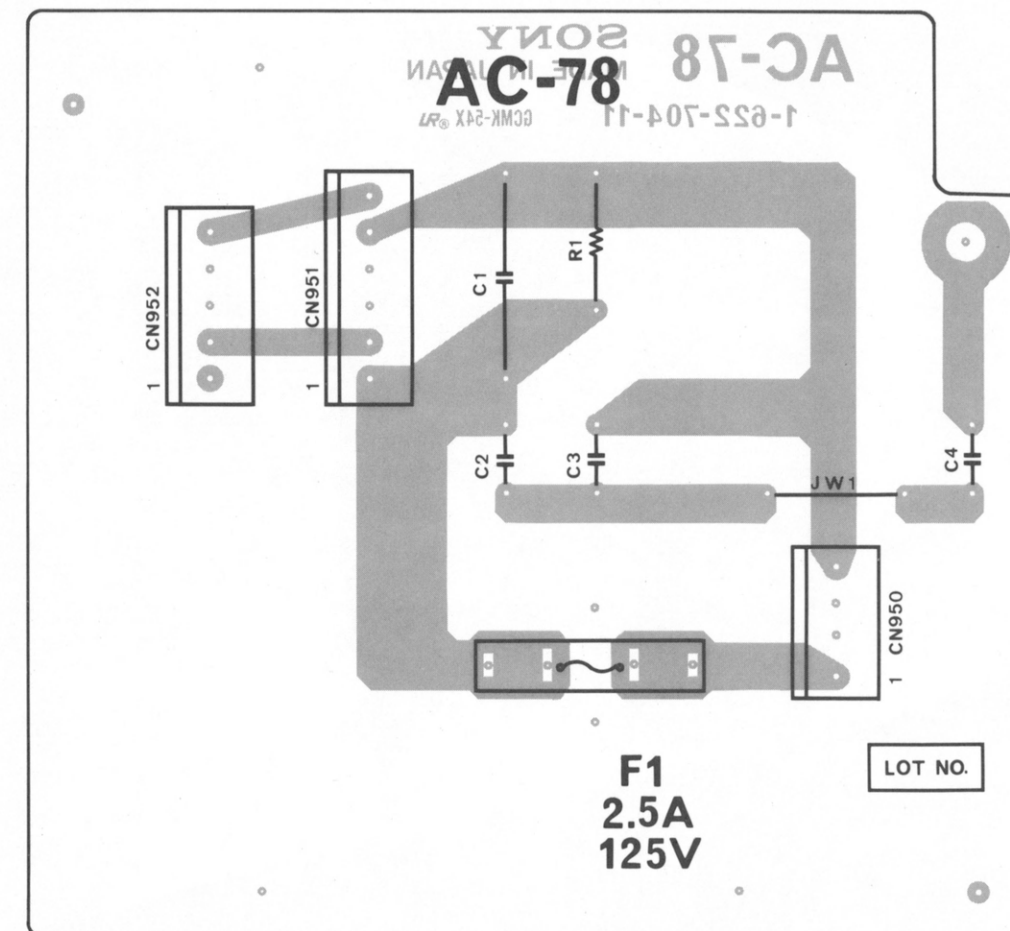
|       |     |       |     |
|-------|-----|-------|-----|
| IC101 | B-5 | TP101 | B-5 |
| IC102 | B-3 | TP102 | B-1 |
| IC103 | A-2 | TP103 | C-2 |
| IC104 | A-5 | TP104 | B-6 |
| IC105 | B-6 | TP201 | C-5 |
| IC106 | A-2 | TP401 | D-1 |
| IC107 | B-1 | TP402 | D-1 |
| IC201 | C-4 | TP403 | D-1 |
| IC301 | C-1 | TP404 | D-1 |
| IC302 | C-1 |       |     |
| IC401 | E-2 | X301  | C-2 |
| IC402 | G-2 | X401  | D-1 |
| IC403 | E-3 |       |     |
| IC404 | F-5 |       |     |

|      |     |
|------|-----|
| Q102 | B-6 |
| Q103 | B-6 |
| Q104 | B-3 |
| Q105 | B-3 |
| Q106 | B-3 |
| Q107 | B-3 |
| Q108 | A-4 |
| Q109 | A-4 |
| Q110 | A-2 |
| Q111 | B-1 |
| Q115 | B-4 |
| Q116 | B-4 |
| Q201 | D-4 |
| Q202 | D-4 |
| Q401 | F-2 |
| Q402 | F-2 |
| Q403 | D-3 |
| Q404 | G-3 |
| Q405 | G-2 |
| Q406 | F-2 |
| Q407 | F-2 |
| Q408 | D-4 |
| Q409 | G-2 |
| Q410 | G-4 |
| Q411 | E-2 |
| Q412 | E-2 |
| Q413 | G-1 |

HN-84 — COMPONENT SIDE —  
1-622-726-11(I)  
BVU-950  
BVU-950PBC-11 — COMPONENT SIDE —  
1-622-705-11(I)  
BVU-950  
BVU-950P



AC-78; AC PRIMARY CIRCUIT



AC-78/A—COMPONENT SIDE—  
1-622-704-11(1)  
BVU-950  
BVU-950P



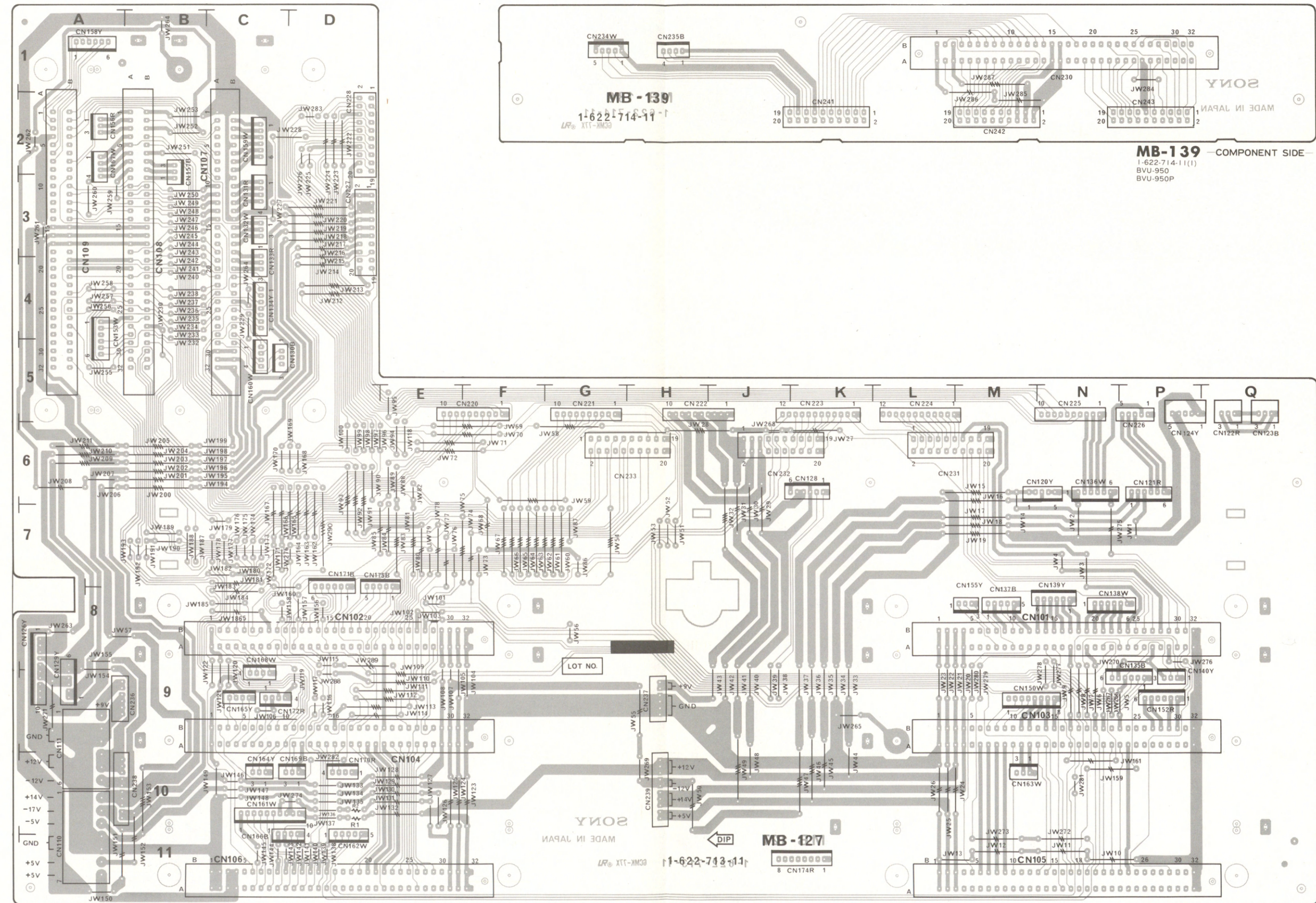




MB-127: MOTHER BOARD  
MB-139: SUB MOTHER FOR TC

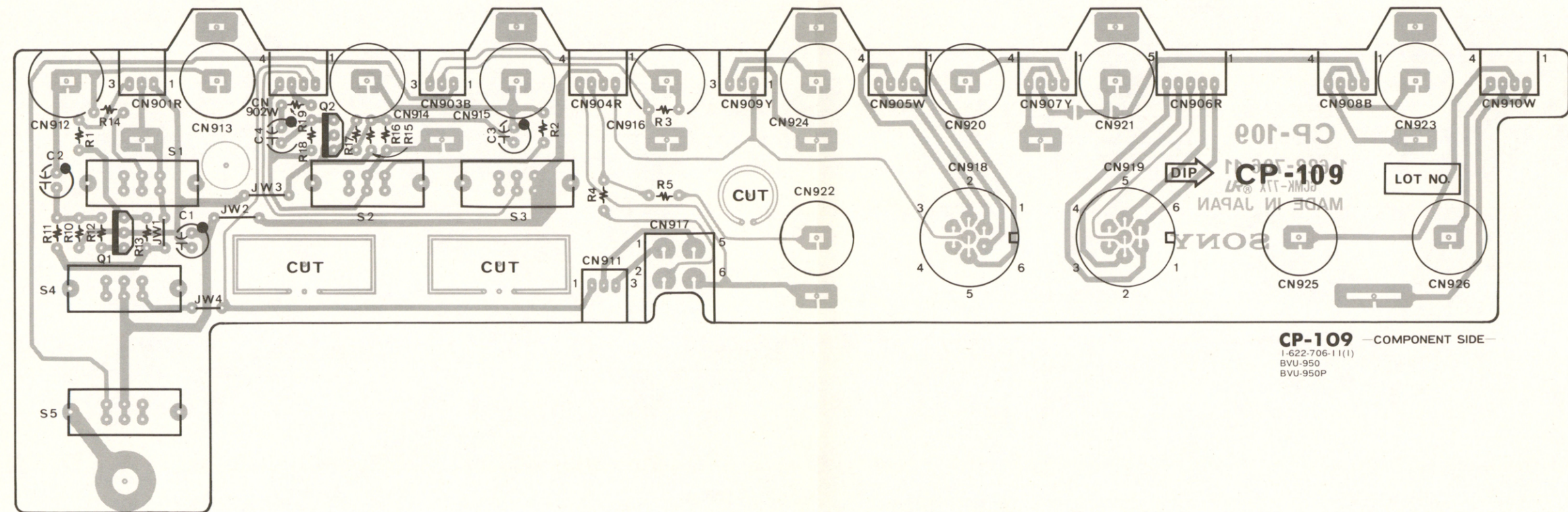
MB-127 (1-622-713-11)

|       |      |       |      |
|-------|------|-------|------|
| CN101 | N-8  | CN226 | P-5  |
| CN102 | D-8  | CN227 | D-3  |
| CN103 | N-9  | CN228 | D-2  |
| CN104 | D-9  | CN231 | L-6  |
| CN105 | N-11 | CN232 | J-6  |
| CN106 | C-11 | CN233 | H-6  |
| CN107 | C-2  | CN236 | A-9  |
| CN108 | B-3  | CN237 | H-9  |
| CN109 | A-3  | CN238 | A-10 |
| CN110 | A-11 | CN239 | H-10 |
| CN111 | A-9  |       |      |
| CN120 | N-6  |       |      |
| CN121 | P-6  |       |      |
| CN122 | Q-5  |       |      |
| CN123 | Q-5  |       |      |
| CN124 | P-5  |       |      |
| CN126 | A-8  |       |      |
| CN128 | K-6  |       |      |
| CN129 | A-9  |       |      |
| CN130 | C-5  |       |      |
| CN131 | C-3  |       |      |
| CN132 | C-3  |       |      |
| CN133 | C-4  |       |      |
| CN134 | C-4  |       |      |
| CN135 | P-9  |       |      |
| CN136 | N-6  |       |      |
| CN137 | M-8  |       |      |
| CN138 | N-8  |       |      |
| CN139 | N-8  |       |      |
| CN140 | P-9  |       |      |
| CN150 | M-9  |       |      |
| CN152 | P-9  |       |      |
| CN153 | A-4  |       |      |
| CN155 | M-8  |       |      |
| CN156 | A-2  |       |      |
| CN157 | B-2  |       |      |
| CN158 | A-1  |       |      |
| CN159 | C-2  |       |      |
| CN160 | C-5  |       |      |
| CN161 | C-10 |       |      |
| CN162 | D-11 |       |      |
| CN163 | M-10 |       |      |
| CN164 | C-10 |       |      |
| CN165 | C-9  |       |      |
| CN166 | D-11 |       |      |
| CN167 | A-2  |       |      |
| CN168 | C-9  |       |      |
| CN169 | D-10 |       |      |
| CN170 | D-10 |       |      |
| CN171 | D-7  |       |      |
| CN172 | C-9  |       |      |
| CN174 | K-11 |       |      |
| CN175 | D-7  |       |      |
| CN220 | F-5  |       |      |
| CN221 | G-5  |       |      |
| CN222 | H-5  |       |      |
| CN223 | K-5  |       |      |
| CN224 | L-5  |       |      |
| CN225 | N-5  |       |      |

MB-139 — COMPONENT SIDE —  
1-622-714-11(1)  
BVU-950  
BVU-950PMB-127 — COMPONENT SIDE —  
1-622-713-11(1)  
BVU-950  
BVU-950P



CP-109; CONNECTOR PANEL

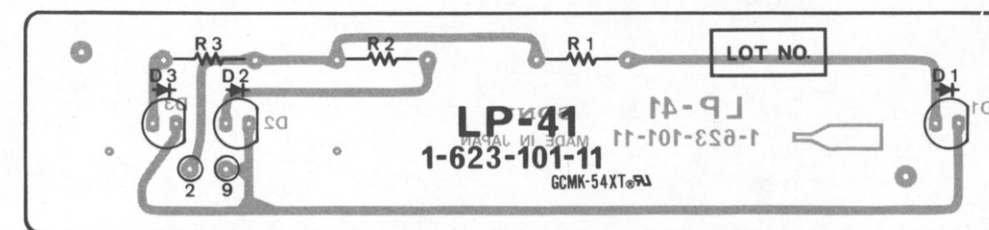




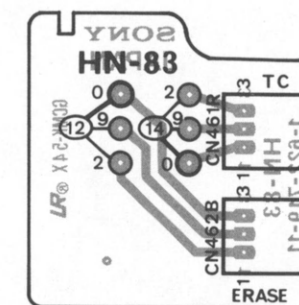
HN-83; RELAY BOARD FOR TIME CODE HEAD/ERASE HEAD

LP-41; CASSETTE COMPARTMENT LIGHT

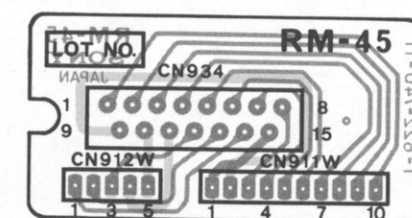
RM-45; TBC REMOTE CONTROL



**LP-41** — COMPONENT SIDE —  
 1-623-101-11(1)  
 BVU-950  
 BVU-950P



**HN-83** — COMPONENT SIDE —  
 1-622-719-11(1)  
 BVU-950  
 BVU-950P

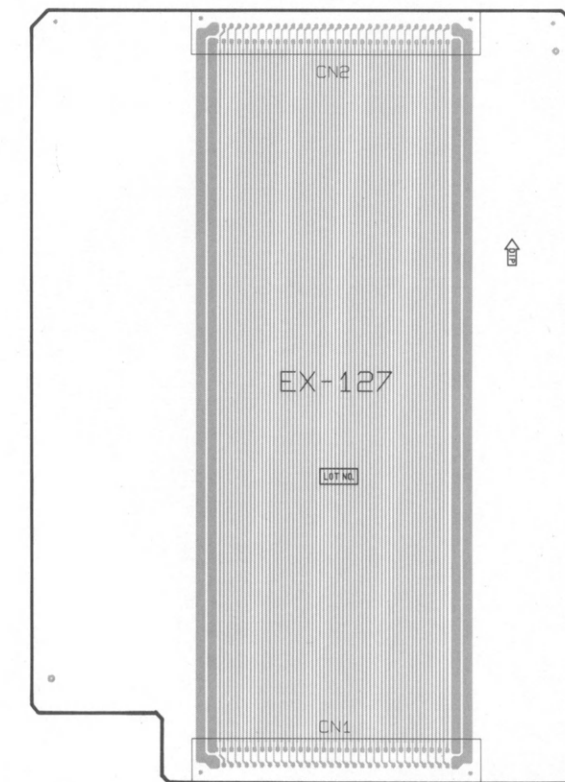


**RM-45** — COMPONENT SIDE —  
 1-622-740-11(1)  
 BVU-950  
 BVU-950P

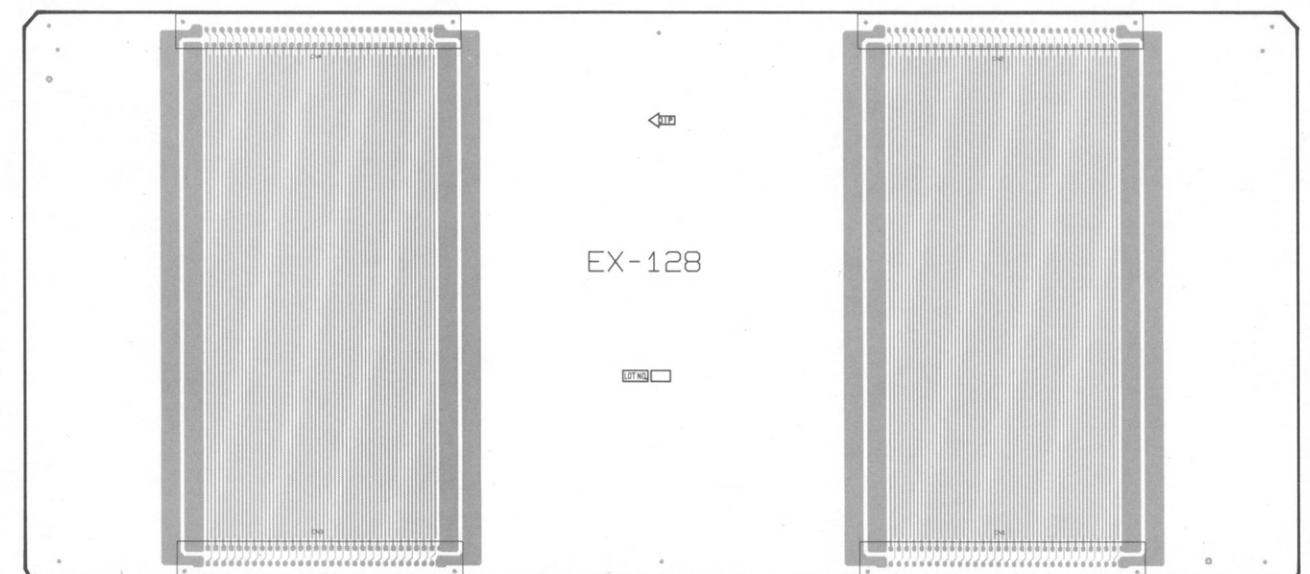


EX-127; EXTENSION BOARD FOR AUDIO/TIME CODE

EX-128; EXTENSION BOARD FOR VIDEO/SERVO/TBC



**EX-127** — COMPONENT SIDE —  
1-622-711-11(1)  
BVU-950  
BVU-950P



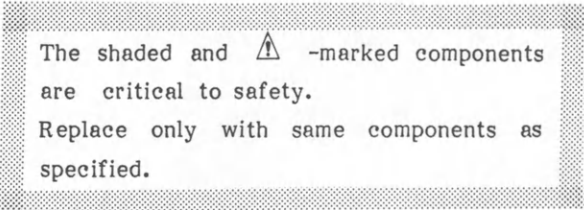

**EX-128** — COMPONENT SIDE —  
1-622-712-11(1)  
BVU-950  
BVU-950P



## SECTION 18

### SPARE PARTS AND FIXTURE

#### 18-1. PARTS INFORMATION

- (1)  The shaded and  -marked components are critical to safety. Replace only with same components as specified.
- (2) Replacement Parts supplied from the Sony Parts Center will sometimes have a different shape from the original parts. This is due to "improved parts and/or engineering changes" or "standardization of genuine parts". This manual's exploded views and electrical spare parts list indicate the part numbers of "the standardized genuine parts at the present". Regarding engineering part changes by the engineering department, refer to Sony service bulletins and service manual supplements.
- (3) The parts marked with "s" in the SP column of the exploded views and electrical spare parts lists are normally stocked for replacement purposes. The parts marked with "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.
- (4) Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- (5) ( T ) after a spring description is shown on the exploded views in order to indicate the number of spring turns required for the use. (Example) Spring, tension (24T); This spring must be cut at its 24th turn for actual use.

#### 18-2. EXPLODED VIEW

. Exploded views are composed of the following blocks.

- (1) Reel Chassis  
supply reel table  
take-up reel table  
supply main brake  
take-up main brake  
sub brake  
take-up tension detector  
TRC detector  
reel motors  
reel table rotation detector
- (2) Threading Ring Block  
threading ring  
gear box  
T correction guide  
tape beginning sensor  
FR detector
- (3) Threading Arm  
T drawer arm  
S drawer arm  
S drawer roller  
drawer lever
- (4) Drum and Capstan Blocks  
head drum  
capstan motor  
audio/ CTL head  
tape guides
- (5) Erase Head Base  
erase head base  
S guard  
supply tension detector
- (6) Pinch Lever and Pinch Solenoid Blocks  
pinch lever  
pinch roller pre-set cam  
pinch solenoid



(7) Cassette-up Compartment Block

(8) Function Control  
function control board  
search dial

(9) Level Control  
level control board  
level meter  
power sw

(10) Chassis Block (Rear)  
printed circuit boards

(11) Chassis Block (Left)  
printed circuit boards  
left side panel

(12) Chassis Block (Right)  
printed circuit boards

(13) Chassis Block (Bottom)  
printed circuit boards

(14) Chassis Block (Front)  
TBC control board  
cassette-up compartment stay

(15) Connector Panel

(16) Rear Panel  
fan motor  
AC inlet  
remote connector

(17) Switching Regulator

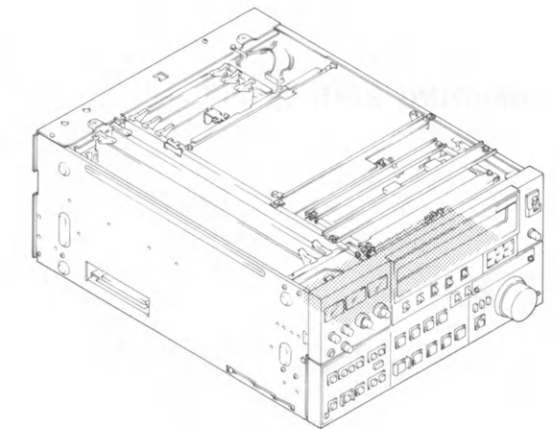
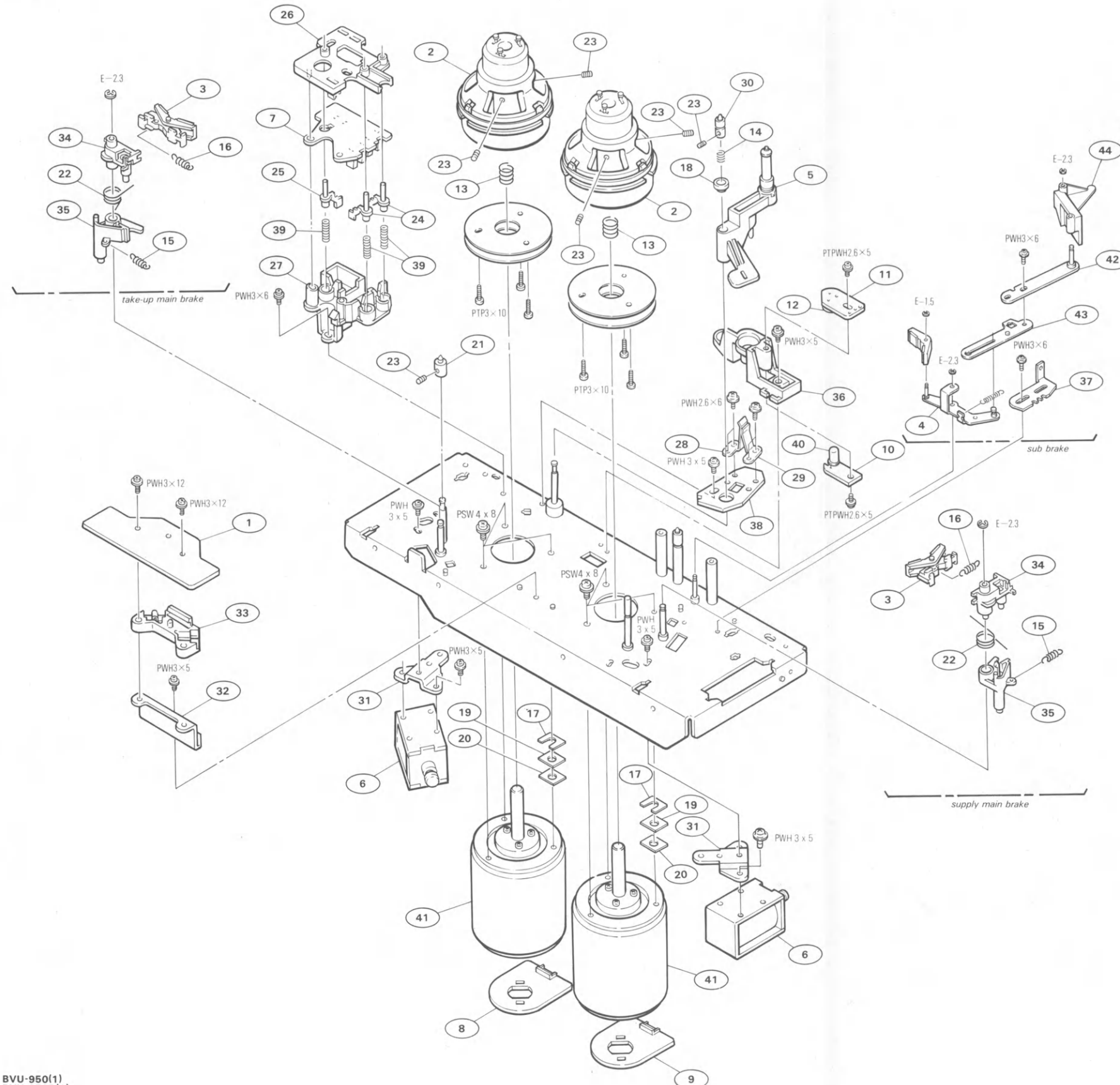
(18) Ornamental Panel (1)  
function control panel  
search dial

(19) Ornamental Panel (2)  
level control panel

(20) Ornamental Panel (3)  
U case  
bottom plate



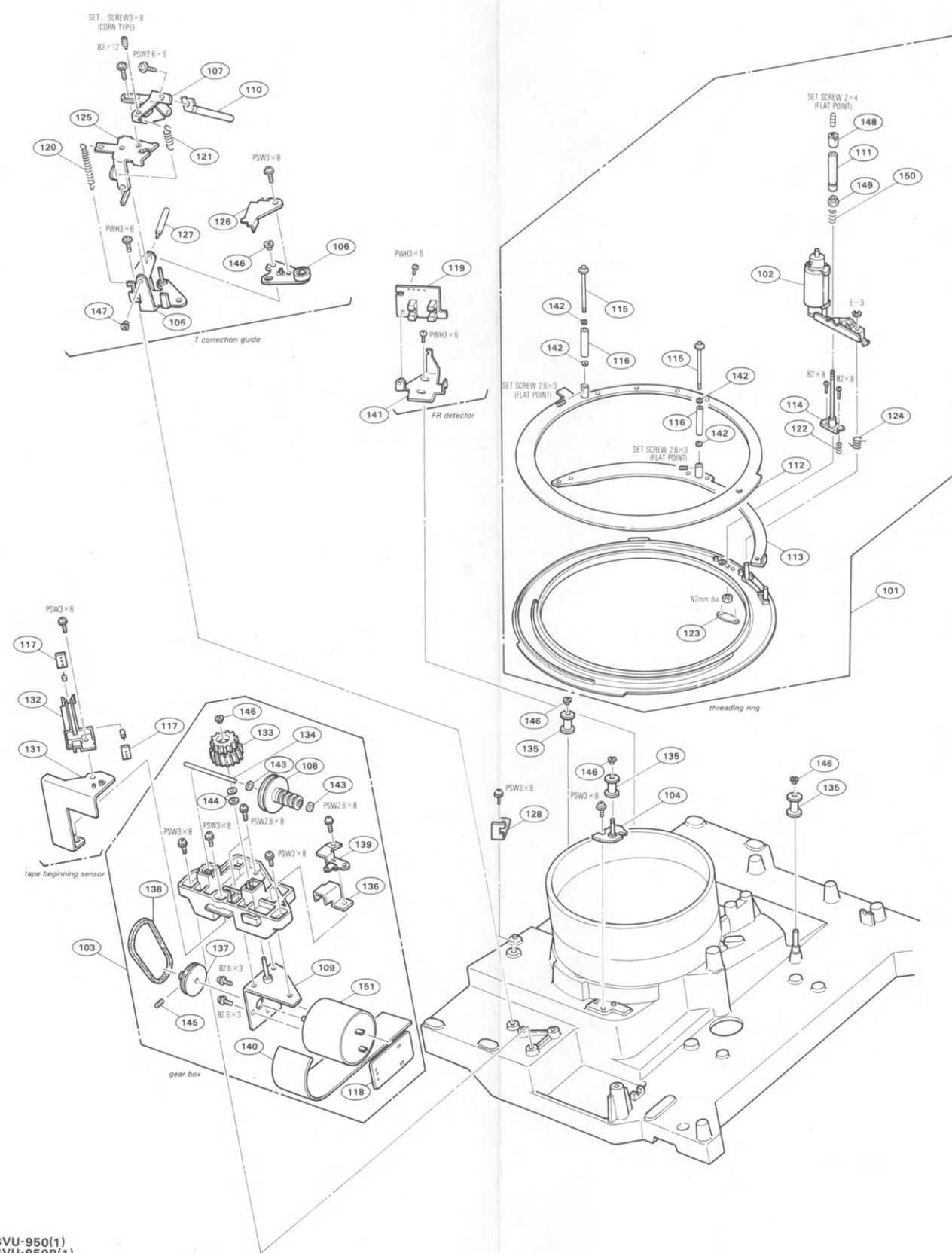
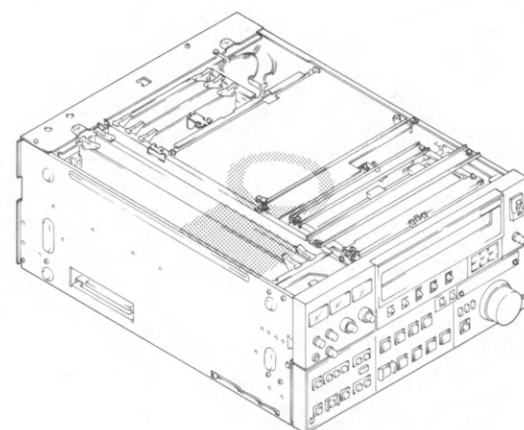
# 1. REEL CHASSIS



| No. | Parts No.    | SP | Description                    |
|-----|--------------|----|--------------------------------|
| 1   | A-6729-496-A | o  | MOUNTED CIRCUIT BOARD, SE-48   |
| 2   | A-6739-080-A | s  | TABLE ASS'Y, REEL              |
| 3   | X-3668-749-0 | s  | HOLDER ASS'Y, LINING           |
| 4   | X-3718-628-1 | o  | ARM ASS'Y, SUB BRAKE           |
| 5   | X-3718-630-1 | s  | ARM ASSY, T SENSOR             |
| 6   | 1-454-417-31 | s  | SOLENOID, PLUNGER              |
| 7   | 1-622-260-11 | o  | PRINTED CIRCUIT BOARD, PTC-30  |
| 8   | 1-622-715-11 | o  | PRINTED CIRCUIT BOARD, DUS-177 |
| 9   | 1-622-716-11 | o  | PRINTED CIRCUIT BOARD, DUS-178 |
| 10  | 1-622-717-11 | o  | PRINTED CIRCUIT BOARD, LE-54   |
| 11  | 1-622-718-11 | o  | PRINTED CIRCUIT BOARD, PTC-29  |
| 12  | 1-806-232-21 | s  | DETECTOR MB-1102/S.N           |
| 13  | 2-083-308-00 | s  | SPRING, (B)                    |
| 14  | 3-307-932-00 | s  | SPRING, COMPRESSION            |
| 15  | 3-535-369-XX | s  | SPRING, TENSION (12T)          |
| 16  | 3-548-124-00 | s  | SPRING, TENSION                |
| 17  | 3-630-035-11 | s  | SPACER, REEL MOTOR (0.02T)     |
| 18  | 3-650-512-00 | s  | COLLAR, (A)                    |
| 19  | 3-651-203-11 | s  | SPACER, REEL MOTOR (0.05T)     |
| 20  | 3-651-203-21 | s  | SPACER, REEL MOTOR (0.1T)      |
| 21  | 3-668-031-00 | o  | RETAINER (UPPER), CASSETTE     |
| 22  | 3-668-966-00 | s  | SPRING                         |
| 23  | 3-701-506-01 | s  | SET SCREW, DOUBLE POINT 3X4    |
| 24  | 3-718-307-01 | s  | ACTUATOR, TRC                  |
| 25  | 3-718-307-11 | s  | ACTUATOR, TRC                  |
| 26  | 3-718-342-01 | o  | TRC BOX (UPPER)                |
| 27  | 3-718-343-01 | o  | TRC BOX (LOWER)                |
| 28  | 3-718-629-01 | o  | SPRING (1), LEAF, T            |
| 29  | 3-718-630-01 | o  | SPRING (2), LEAF, T            |
| 30  | 3-718-660-01 | o  | RETAINER (TF), CASSETTE        |
| 31  | 3-718-673-01 | o  | SUSPENDER, BS                  |
| 32  | 3-718-686-01 | o  | STAND, B                       |
| 33  | 3-718-700-01 | o  | HOLDER, DME                    |
| 34  | 3-718-712-01 | o  | ARM, BRAKE                     |
| 35  | 3-718-713-01 | o  | ARM, BRAKE RELEASE             |
| 36  | 3-718-741-01 | s  | HOLDER, T-CDS                  |
| 37  | 3-718-767-01 | o  | SCALE, POWER                   |
| 38  | 3-718-770-01 | o  | BASE, T SPRING                 |
| 39  | 4-858-779-00 | s  | SPRING, COMPRESSION            |
| 40  | 8-719-930-20 | s  | DIODE HLMP-1302                |
| 41  | 8-835-255-01 | s  | MOTOR, DC R432278181A          |
| 42  | X-3718-629-1 | o  | RINK ASS'Y, BRAKE RELEASE      |
| 43  | 3-718-764-01 | o  | RINK (A), BRAKE RELEASE        |
| 44  | 3-718-766-01 | o  | ARM, DRIVING                   |



## 2. THREADING RING BLOCK

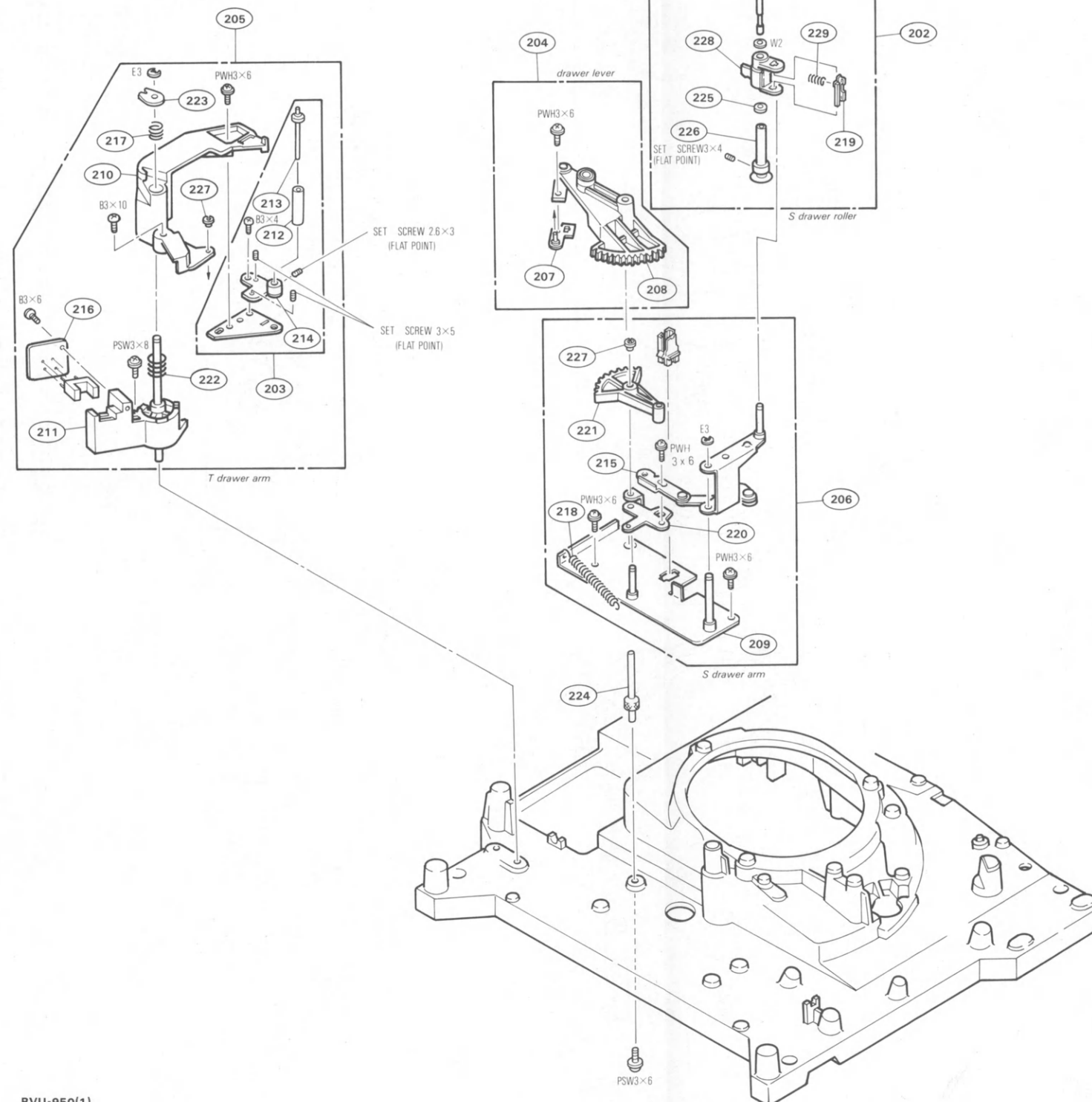
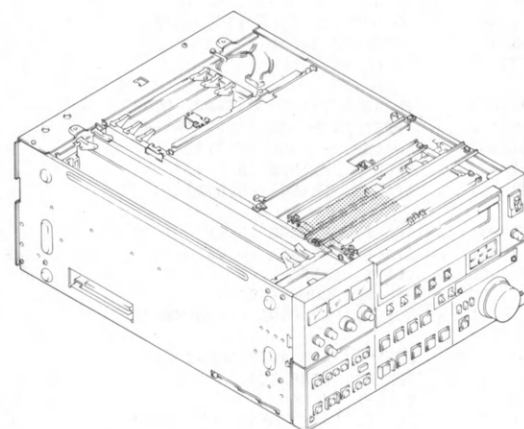


BVU-950(1)  
BVU-950P(1)

| No. | Parts No.    | SP | Description                    |
|-----|--------------|----|--------------------------------|
| 101 | A-6750-222-A | s  | RING BLOCK ASS'Y, MAIN         |
| 102 | A-6750-223-A | s  | PINCH ROLLER BLOCK ASS'Y       |
| 103 | A-6750-224-A | s  | BOX BLOCK ASS'Y, GEAR          |
| 104 | X-3668-719-0 | o  | ROLLER ASS'Y, RING             |
| 105 | X-3668-721-0 | o  | CHASSIS ASS'Y, GUIDE           |
| 106 | X-3668-722-0 | s  | LOCKER ASS'Y, FR               |
| 107 | X-3668-723-2 | o  | ARM ASS'Y, GUIDE, T CORRECTION |
| 108 | X-3668-743-0 | s  | PULLY ASS'Y, WORM              |
| 109 | X-3672-704-1 | o  | BRACKET ASS'Y, MOTOR           |
| 110 | X-3672-718-2 | s  | SHAFT ASS'Y, GUIDE             |
| 111 | X-3718-602-1 | s  | ROLLER ASS'Y, GUIDE PRECEDING  |
| 112 | X-3718-604-1 | o  | RING (UPPER) ASS'Y, SUB        |
| 113 | X-3718-605-1 | o  | RING (LOWER) ASS'Y, SUB        |
| 114 | X-3718-606-1 | o  | BASE ASS'Y, PRECEDING          |
| 115 | X-3718-607-1 | s  | SHAFT ASS'Y, RG                |
| 116 | X-3718-614-1 | s  | GUIDE ASS'Y, TAPE              |
| 117 | 1-603-737-00 | o  | PRINTED CIRCUIT BOARD, PH-5    |
| 118 | 1-618-600-11 | o  | PRINTED CIRCUIT BOARD, LM-13   |
| 119 | 1-622-258-11 | o  | PRINTED CIRCUIT BOARD, PTC-33  |
| 120 | 3-143-067-00 | s  | SPRING, TENSION                |
| 121 | 3-437-289-00 | s  | SPRING, TENSION                |
| 122 | 3-634-196-00 | s  | SPRING                         |
| 123 | 3-668-743-00 | o  | NUT, PLATE, ROLLER, PRECEDING  |
| 124 | 3-668-745-00 | s  | SPRING                         |
| 125 | 3-668-749-02 | o  | ARM (A), GUIDE, T CORRECTION   |
| 126 | 3-668-753-00 | o  | PLATE, ADJUSTMENT, FR, LOCKER  |
| 127 | 3-668-754-00 | o  | SHAFT, GUIDE ARM, T CORRECTION |
| 128 | 3-668-755-00 | o  | PLATE, STOPPER, SR             |
| 131 | 3-668-900-00 | o  | BRACKET, T SENSOR              |
| 132 | 3-668-901-00 | o  | HOLDER, T PHOTO                |
| 133 | 3-668-947-00 | s  | PINION, L                      |
| 134 | 3-668-948-00 | o  | SHAFT, WORM                    |
| 135 | 3-668-963-00 | s  | ROLLER, RING                   |
| 136 | 3-669-960-00 | o  | RETAINER, SHAFT                |
| 137 | 3-672-736-01 | s  | PULLEY, LM                     |
| 138 | 3-672-737-01 | s  | BELT, SQUARE                   |
| 139 | 3-672-738-01 | o  | PLATE, GROUND, SLED            |
| 140 | 3-672-739-01 | o  | BELT, LM SHIELD                |
| 141 | 3-672-790-01 | o  | BRACKET, FR DETECTION          |
| 142 | 3-701-437-11 | s  | WASHER, POLY 2 MM DIA., 0.25T  |
| 143 | 3-701-437-21 | s  | WASHER, POLY 2 MM DIA., 0.5T   |
| 144 | 3-701-439-21 | s  | WASHER, POLY 2 MM DIA., 0.5T   |
| 145 | 3-701-506-01 | s  | SET SCREW, DOUBLE POINT 3X4    |
| 146 | 3-703-074-00 | s  | CAP 3, SHAFT                   |
| 147 | 3-703-075-00 | s  | CAP 2, SHAFT                   |
| 148 | 3-718-633-01 | s  | FLANGE, UPPER, PRECEDING GUIDE |
| 149 | 3-718-634-01 | s  | FLANGE, LOWER, PRECEDING GUIDE |
| 150 | 3-838-774-00 | o  | SPRING                         |
| 151 | 8-835-055-01 | s  | MOTOR, DC (DNR-4700A)          |



### 3. THREADING ARM

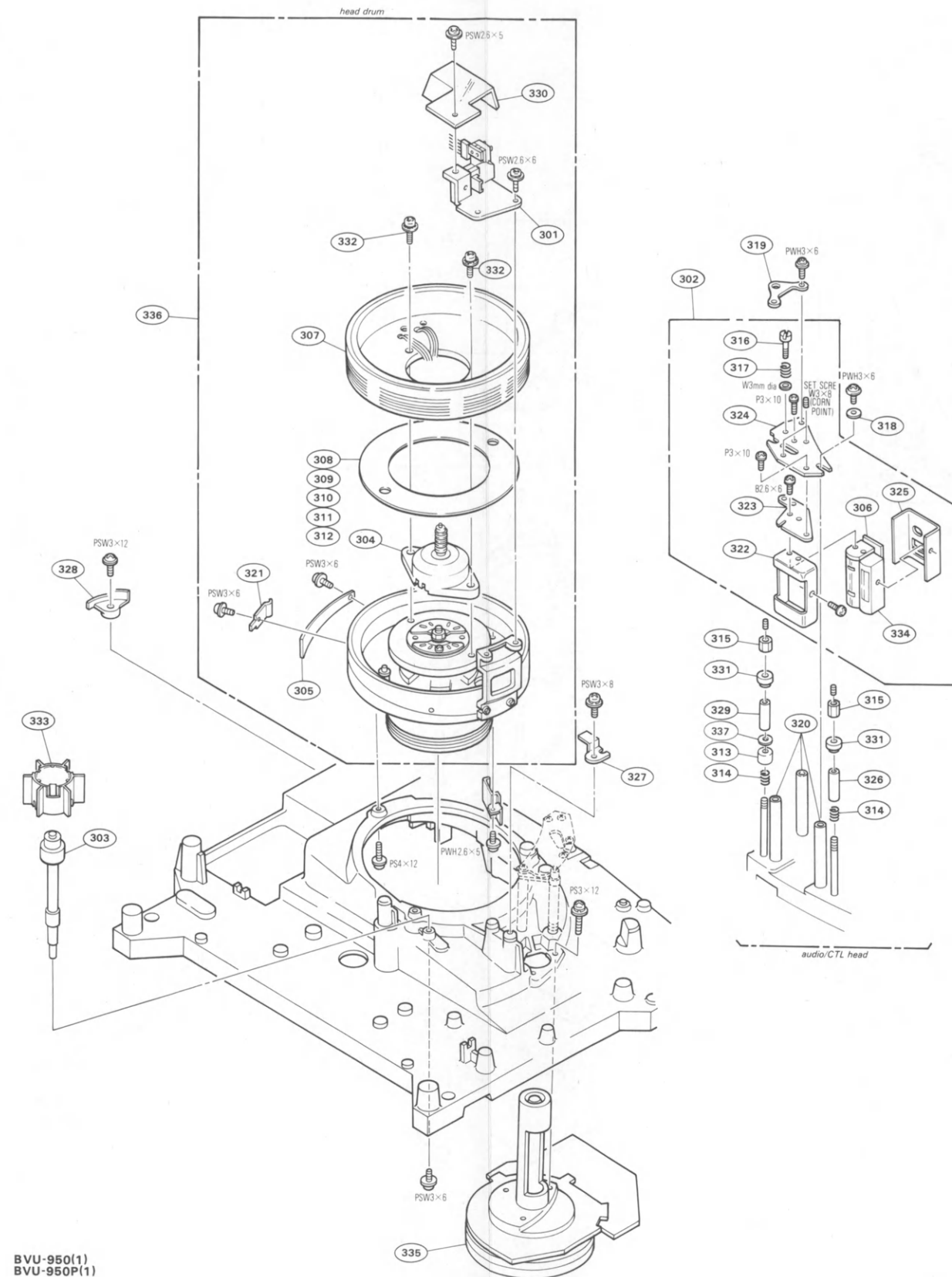
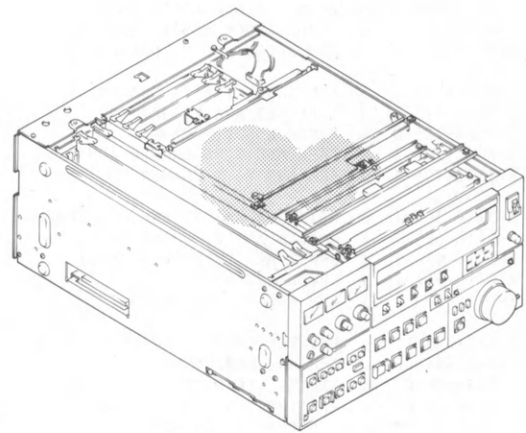


| No. | Parts No.    | SP | Description                      |
|-----|--------------|----|----------------------------------|
| 201 | A-6746-025-A | s  | ROLLER BLOCK ASS'Y (1), S DRAWER |
| 202 | A-6746-050-A | s  | ROLLER BLOCK ASS'Y, DRAWER, S    |
| 203 | A-6746-051-A | s  | ROLLER BLOCK ASS'Y, GUIDE, T     |
| 204 | A-6750-202-A | o  | LEVER BLOCK ASS'Y, DRAWER        |
| 205 | A-6750-221-A | o  | ARM BLOCK ASS'Y, DRAWER, T       |
| 206 | A-6750-225-A | o  | ARM BLOCK ASS'Y, DRAWER, S       |
| 207 | X-3668-713-0 | o  | LINK (B) ASS'Y, DRIVING          |
| 208 | X-3668-729-0 | s  | LEVER ASS'Y, DRAWER              |
| 209 | X-3672-706-1 | o  | BASE ASS'Y, S DRAWER ARM         |
| 210 | X-3672-708-1 | o  | ARM ASS'Y, T DRAWER              |
| 211 | X-3718-305-1 | o  | RETAINER ASS'Y, ARM, T DRAWER    |
| 212 | X-3718-603-1 | s  | ROLLER ASS'Y, GUIDE, RG          |
| 213 | X-3718-610-1 | s  | SHAFT ASS'Y, DRAWER GUIDE        |
| 214 | X-3718-612-1 | o  | GUIDE ASS'Y, T                   |
| 215 | X-3718-615-1 | o  | ARM ASS'Y, DRAWER, S             |
| 216 | 1-622-259-11 | o  | PRINTED CIRCUIT BOARD, PTC-34    |
| 217 | 3-534-854-00 | s  | SPRING, COMPRESSION              |
| 218 | 3-540-506-00 | s  | SPRING, TENSION                  |
| 219 | 3-668-718-00 | s  | RETAINER, SPRING, S DRAWER       |
| 220 | 3-668-720-00 | o  | LIMITER, S DRAWER                |
| 221 | 3-668-721-00 | s  | ARM, S DRIVING                   |
| 222 | 3-668-734-00 | o  | SPRING                           |
| 223 | 3-668-735-00 | s  | RETAINER, SPRING                 |
| 224 | 3-668-760-00 | o  | SHAFT, DRAWER LEVER              |
| 225 | 3-669-946-00 | s  | RING (P4), O                     |
| 226 | 3-669-974-00 | s  | HOLDEER (L), S GUIDE             |
| 227 | 3-703-074-00 | s  | CAP 3, SHAFT                     |
| 228 | 3-718-701-01 | s  | HOLDER (M), S GUIDE              |
| 229 | 3-718-773-01 | s  | SPRING, COMPRESSION              |

BVU-950(1)  
BVU-950P(1)



4. DRUM AND CAPSTAN BLOCKS

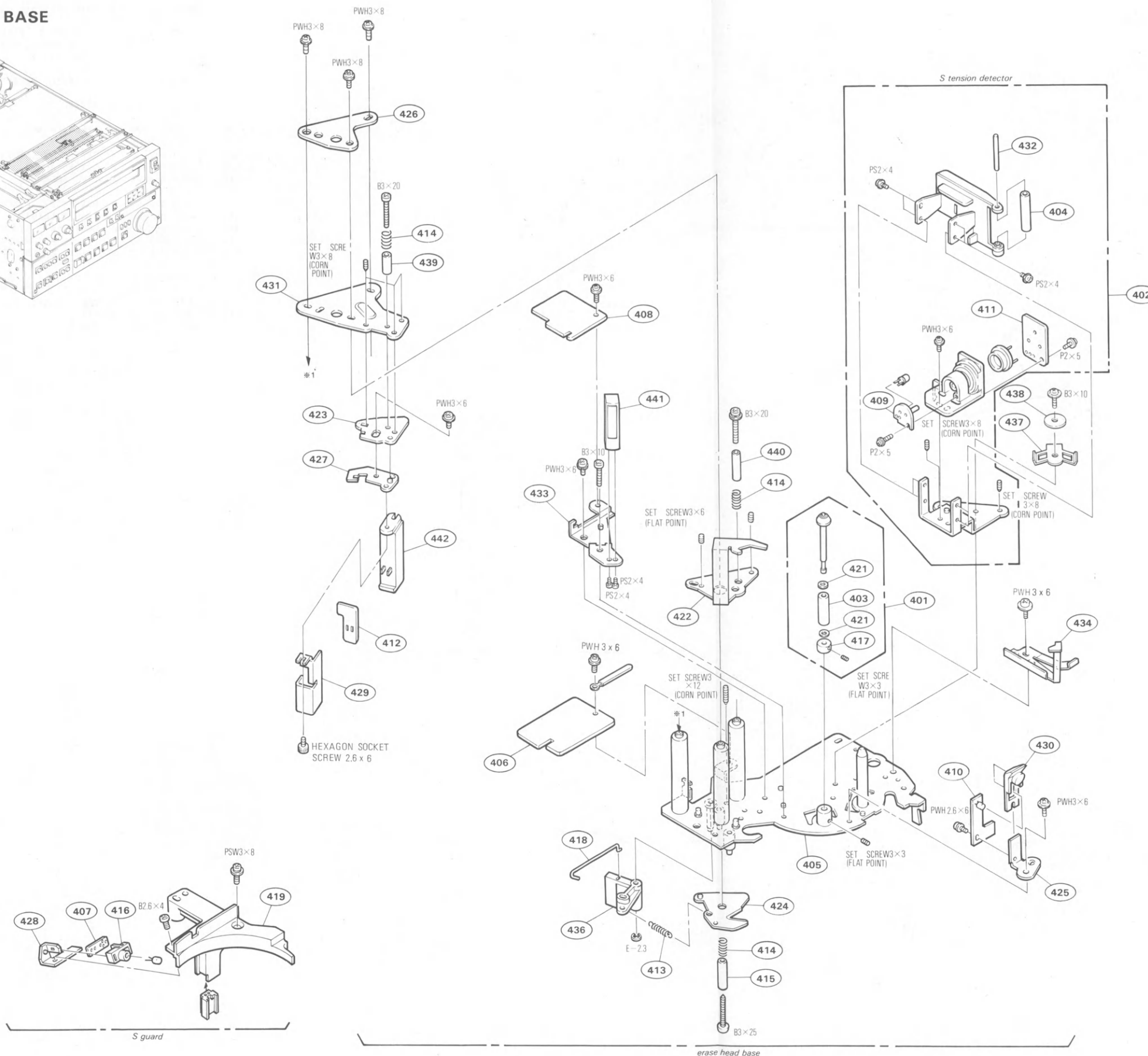
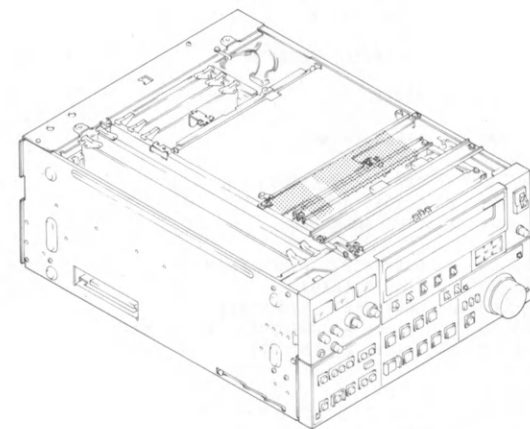


BVU-950(1)  
BVU-950P(1)

| No. | Parts No.    | SP | Description                   |
|-----|--------------|----|-------------------------------|
| 301 | A-6709-611-A | s  | BRUSH ASS'Y                   |
| 302 | A-6736-071-A | o  | HEAD BLOCK ASS'Y, AUDIO       |
| 303 | A-6746-049-A | s  | ROLLER ASS'Y, GUIDE, TAPE     |
| 304 | X-3685-017-1 | s  | RING ASS'Y, SLIP              |
| 305 | 1-586-633-00 | s  | DETECTOR, DEW                 |
| 306 | 1-615-924-11 | o  | PRINTED CIRCUIT BOARD, DUS-92 |
| 307 | A-6709-615-A | s  | UPPER DRUM ASS'Y, DUR-43-R    |
| 308 | 3-630-029-01 | s  | SPACER, FLANGE (0.01T)        |
| 309 | 3-630-029-11 | s  | SPACER, FLANGE (0.02T)        |
| 310 | 3-630-029-21 | s  | SPACER, FLANGE (0.05T)        |
| 311 | 3-630-029-31 | s  | SPACER, FLANGE (0.1T)         |
| 312 | 3-630-029-41 | s  | SPACER, FLANGE (0.03T)        |
| 313 | 3-641-612-00 | s  | GUIDE, TAPE                   |
| 314 | 3-641-615-00 | s  | SPRING, COMPRESSION           |
| 315 | 3-641-616-00 | s  | NUT, TAPE GUIDE ADJUSTMENT    |
| 316 | 3-641-621-00 | o  | SCREW, HEAD ADJUSTMENT        |
| 317 | 3-641-622-00 | s  | SPRING, COMPRESSION           |
| 318 | 3-645-076-00 | o  | WASHER, M-REEL S              |
| 319 | 3-647-815-00 | o  | PLATE, ADJUSTMENT, CTL HEAD   |
| 320 | 3-647-816-00 | o  | POLE, SUPPORT, CTL BRACKET    |
| 321 | 3-655-631-00 | o  | TERMINAL, GROUND              |
| 322 | 3-655-675-02 | o  | CASE (F), AU                  |
| 323 | 3-655-676-01 | o  | BRACKET (A), CTL HEAD         |
| 324 | 3-655-677-01 | o  | BRACKET (B), CTL HEAD         |
| 325 | 3-655-678-03 | o  | CASE (B), AU                  |
| 326 | 3-672-978-02 | s  | GUIDE (B), TAPE               |
| 327 | 3-672-762-01 | o  | PIN, DRUM                     |
| 328 | 3-672-763-01 | o  | CAM, P OFFSET PREVENTION      |
| 329 | 3-672-731-01 | s  | TC-4                          |
| 330 | 3-685-048-01 | o  | COVER, BRUSH                  |
| 331 | 3-688-807-01 | s  | FLANGE, TAPE GUIDE            |
| 332 | 3-703-467-00 | s  | SCREW                         |
| 333 | 3-718-758-01 | s  | DAMPER, AIR                   |
| 334 | 8-825-578-30 | s  | HEAD, ACE (EPS264-5803A)      |
| 335 | 8-835-258-01 | s  | MOTOR, DC BHF-1915B           |
| 336 | A-6709-614-A | s  | HEAD DRUM ASS'Y, DUH-43A-R    |
| 337 | 3-534-329-11 | s  | WASHER, TAPE GUIDE            |



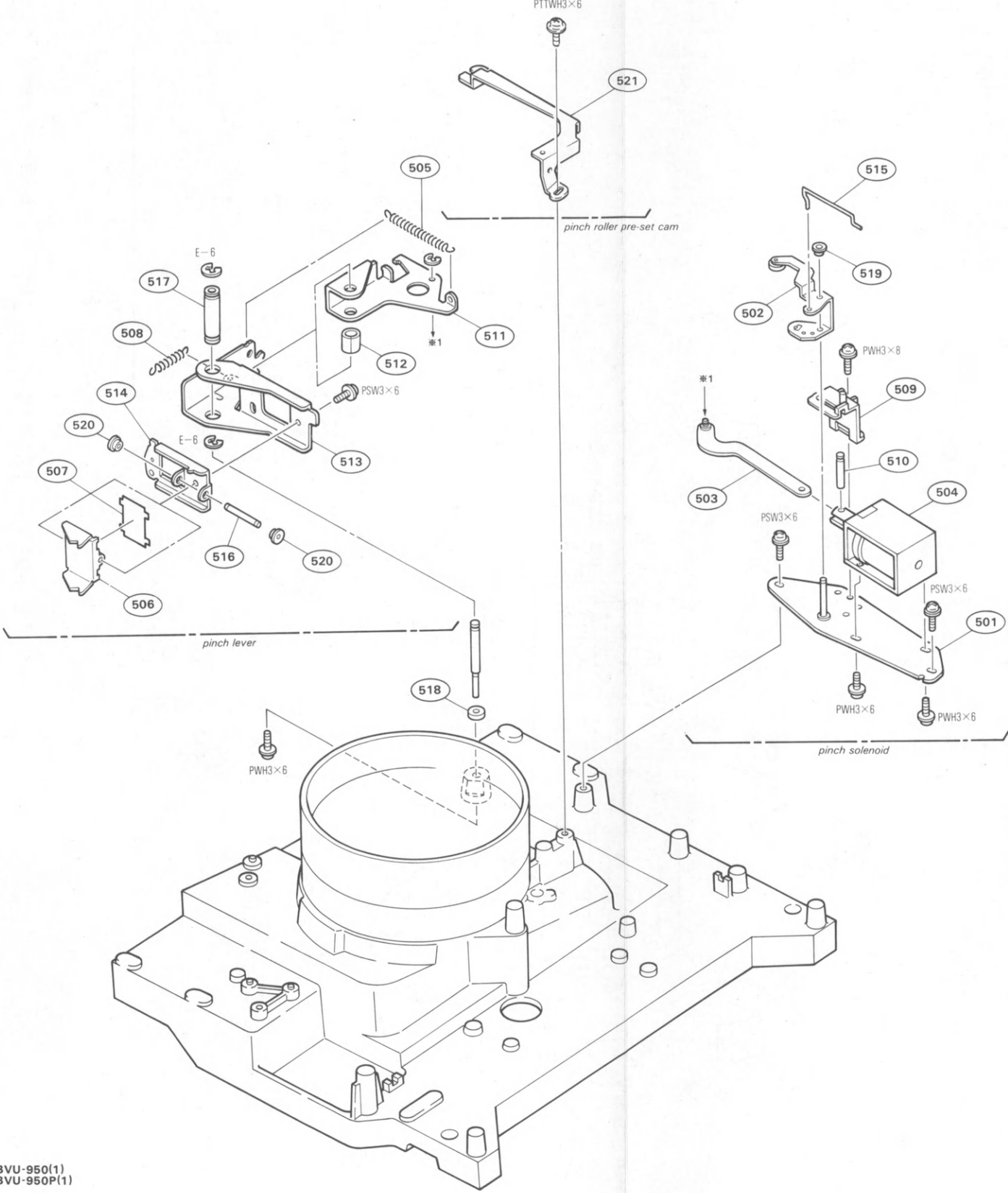
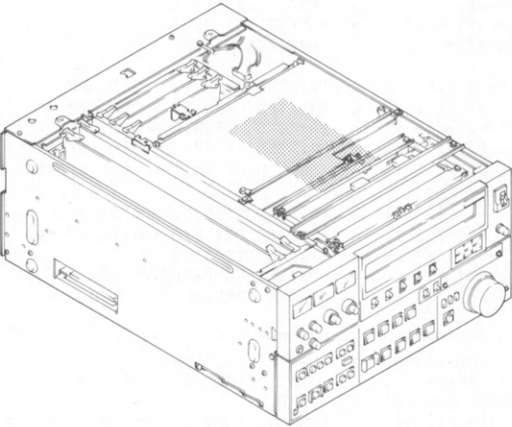
# 5. ERASE HEAD BASE



| No. | Parts No.    | SP | Description                     |
|-----|--------------|----|---------------------------------|
| 401 | A-6046-060-A | s  | ROLLER BLOCK ASS'Y, G           |
| 402 | A-6742-063-A | s  | S-T (D) BLOCK ASS'Y             |
| 403 | X-3668-727-0 | o  | GUIDE ASS'Y, TAPE               |
| 404 | X-3718-611-1 | s  | ROLLER ASS'Y, TD                |
| 405 | X-3718-621-1 | o  | BASE ASS'Y, EN                  |
| 406 | 1-622-261-11 | o  | PRINTED CIRCUIT BOARD, DUS-147  |
| 407 | 1-603-737-00 | o  | PRINTED CIRCUIT BOARD, PH-5     |
| 408 | 1-622-719-11 | o  | PRINTED CIRCUIT BOARD, HN-83    |
| 409 | 1-622-720-11 | o  | PRINTED CIRCUIT BOARD, LE-53    |
| 410 | 1-622-721-11 | o  | PRINTED CIRCUIT BOARD, PTC-26   |
| 411 | 1-622-722-11 | o  | PRINTED CIRCUIT BOARD, PTC-28   |
| 412 | 1-622-726-11 | o  | PRINTED CIRCUIT BOARD, HN-84    |
| 413 | 3-535-531-00 | s  | SPRING, TEISION                 |
| 414 | 3-637-335-00 | s  | SPRING, COMPRESSION (C)         |
| 415 | 3-657-086-00 | o  | SPACER (3X20)                   |
| 416 | 3-668-837-00 | o  | HOLDER, LED                     |
| 417 | 3-668-874-00 | s  | FLANGE (1), LOWER               |
| 418 | 3-668-884-03 | o  | JOINT, RESERVE PRESS            |
| 419 | 3-672-764-03 | s  | GUARD, S                        |
| 421 | 3-701-438-11 | s  | WASHER, POLY 2.5 MM DIA., 0.25T |
| 422 | 3-718-622-01 | s  | HOLDER (UPPER), S               |
| 423 | 3-718-623-01 | o  | PLATE, TC                       |
| 424 | 3-718-624-01 | s  | HOLDER (LOWER), S               |
| 425 | 3-718-639-01 | o  | BASE, S SENSOR                  |
| 426 | 3-718-641-01 | o  | PLATE, ADJUSTMENT, Y            |
| 427 | 3-718-644-01 | o  | PLATE, BLANCE                   |
| 428 | 3-718-645-01 | o  | BRACKET, HOLDER                 |
| 429 | 3-718-646-01 | o  | SHIELD, TC HEAD                 |
| 430 | 3-718-647-01 | o  | HOLDER, S SENSOR                |
| 431 | 3-718-649-01 | o  | PLATE, Y                        |
| 432 | 3-718-674-01 | o  | SHAFT, TD ROLLER                |
| 433 | 3-718-676-01 | o  | BASE, E HEAD                    |
| 434 | 3-718-722-01 | o  | PLATE, GROUND                   |
| 436 | 3-718-766-01 | o  | ARM, DRIVING                    |
| 437 | 3-718-769-01 | o  | SPRING                          |
| 438 | 4-302-315-00 | o  | WASHER                          |
| 439 | 4-855-006-01 | s  | SPACER (3X12)                   |
| 440 | 4-855-006-11 | s  | SPACER (3X14)                   |
| 441 | 8-825-544-20 | s  | HEAD, ERASE                     |
| 442 | 8-825-771-31 | s  | HEAD, TIME CODE, PP295-58       |



6. PINCH LEVER AND PINCH SOLENOID BLOCKS

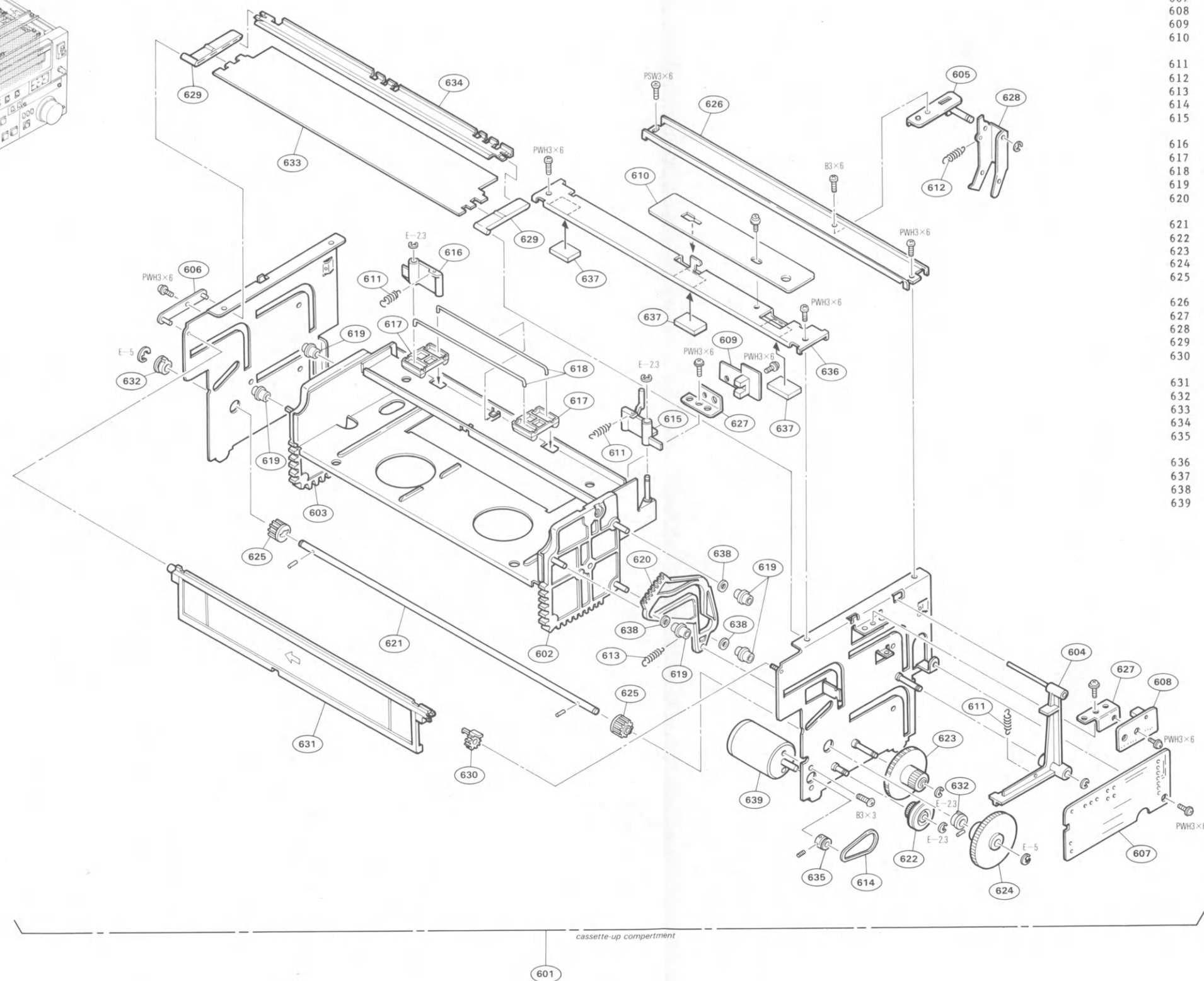
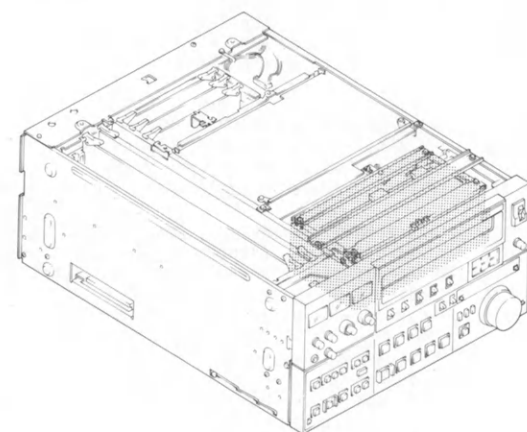


| No. | Parts No.    | SP | Description                    |
|-----|--------------|----|--------------------------------|
| 501 | X-3668-734-0 | o  | BASE ASS'Y, PINCH PRESS        |
| 502 | X-3668-735-3 | s  | LEVER ASS'Y, RESERVE PRESS     |
| 503 | X-3668-736-0 | o  | JOINT ASS'Y                    |
| 504 | 1-454-416-31 | s  | SOLENOID, PLUNGER              |
| 505 | 3-610-265-02 | s  | SPRING                         |
| 506 | 3-642-518-00 | o  | LEVER, PINCH                   |
| 507 | 3-642-519-00 | o  | SPRING                         |
| 508 | 3-645-392-00 | s  | SPRING, TENSION                |
| 509 | 3-668-863-00 | s  | GUIDE, ARBOR                   |
| 510 | 3-668-864-00 | s  | PIN, SOLENOID                  |
| 511 | 3-668-865-00 | o  | LEVER (B), PINCH PRESS         |
| 512 | 3-668-867-00 | o  | SPACER (8X9)                   |
| 513 | 3-668-868-00 | o  | LEVER (A), PINCH PRESS         |
| 514 | 3-668-883-00 | o  | PLATE, ADJUSTMENT, PINCH PRESS |
| 515 | 3-668-884-03 | o  | JOINT, RESERVE PRESS           |
| 516 | 3-668-895-00 | o  | SHAFT                          |
| 517 | 3-668-896-00 | o  | SLEEVE, PRESS LEVER, PINCH     |
| 518 | 3-672-733-01 | o  | TABLE SHAFT, PRESS LEVER       |
| 519 | 3-703-074-00 | s  | CAP 3, SHAFT                   |
| 520 | 3-703-075-00 | s  | CAP 2, SHAFT                   |
| 521 | 3-718-777-01 | o  | DECK, RESERVE PRESS            |

BVU-950(1)  
BVU-950P(1)



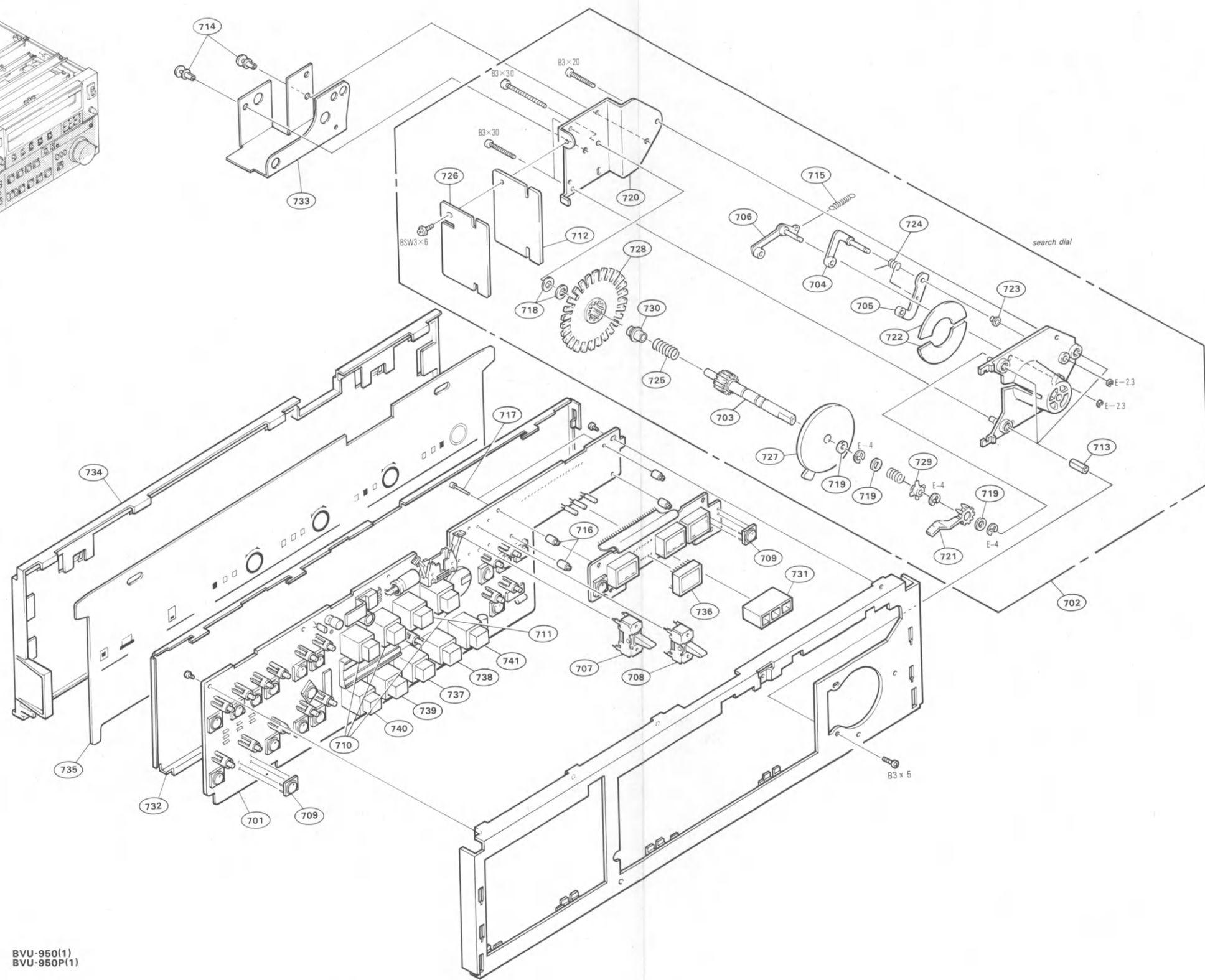
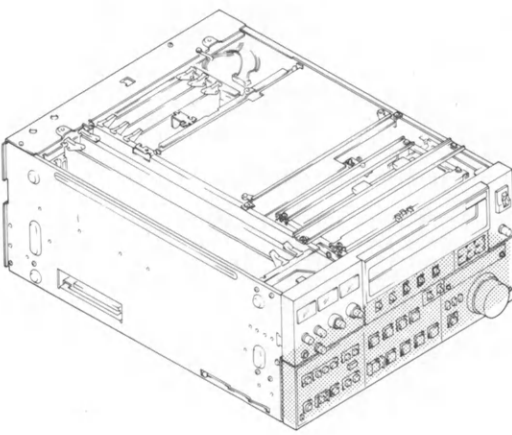
7. CASSETTE-UP COMPARTMENT BLOCK



BVU-950(1)  
BVU-950P(1)



# 8. FUNCTION CONTROL



BVU-950(1)  
BVU-950P(1)

## FUNCTION CONTROL      FUNCTION CONTROL

| No. | Parts No.    | SP | Description                   |
|-----|--------------|----|-------------------------------|
| 701 | A-6717-459-A | o  | MOUNTED CIRCUIT BOARD, KY-101 |
| 702 | A-6734-238-A | s  | DIAL BLOCK ASS'Y, SEARCH      |
| 703 | X-3717-226-1 | o  | SHAFT SUB ASS'Y, MAIN         |
| 704 | X-3717-227-1 | o  | ARM (RIGHT), ASS'Y, S10       |
| 705 | X-3717-228-1 | o  | ARM (LEFT), ASS'Y, S10        |
| 706 | X-3717-229-1 | o  | ARM ASS'Y, RETURN             |
| 707 | 1-516-994-00 | s  | SWICH, LEVER SLIDE            |
| 708 | 1-516-995-00 | s  | SWICH, LEVER SLIDE            |
| 709 | 1-552-539-00 | s  | SWICH, KEY BOARD              |
| 710 | 1-554-039-11 | s  | SWITCH, PUSH                  |
| 711 | 1-554-040-21 | s  | SWITCH, PUSH                  |
| 712 | 1-622-638-11 | o  | PRINTED CIRCUIT BOARD, PTC-32 |
| 713 | 2-280-622-11 | o  | SUPPORT (M3), HEXAGON         |
| 714 | 3-531-576-01 | s  | RIVET, NYLON                  |
| 715 | 3-639-371-00 | s  | SPRING, TENSION               |
| 716 | 3-659-487-00 | s  | HOLDER, BUZER                 |
| 717 | 3-659-488-00 | s  | PIN, BUZER HOLDER             |
| 718 | 3-701-443-11 | s  | WASHER, POLY 5 MM DIA., 0.25T |
| 719 | 3-701-443-21 | s  | WASHER, POLY 5 MM DIA., 0.5T  |
| 720 | 3-717-315-01 | o  | PLATE, BOTTOM, SD             |
| 721 | 3-717-316-01 | o  | GUIDE, LOCK IN                |
| 722 | 3-717-317-01 | o  | PLATE, CLUCH                  |
| 723 | 3-717-318-01 | o  | BEARING, S10                  |
| 724 | 3-717-319-01 | o  | SPRING, TORSION               |
| 725 | 3-717-320-01 | o  | SPRING, COMPRESSION           |
| 726 | 3-717-321-01 | o  | PROTECTOR, PCT                |
| 727 | 3-717-417-01 | o  | CAM                           |
| 728 | 3-717-418-01 | o  | PLATE                         |
| 729 | 3-717-546-01 | o  | GUIDE, LOCK OUT               |
| 730 | 3-717-553-01 | o  | BEARING, SD                   |
| 731 | 3-718-657-01 | o  | HOLDER, LED                   |
| 732 | 3-718-740-01 | o  | PROTECTOR, KY                 |
| 733 | 3-718-771-01 | o  | COVER (U), SD                 |
| 734 | 3-718-792-01 | o  | HOLDER, SHEET                 |
| 735 | 3-718-793-01 | s  | MENU SHEET                    |
| 736 | 8-819-942-19 | s  | DIODE, LB-402VK               |
| 737 | 1-554-039-21 | s  | SWITCH, PUSH                  |
| 738 | 1-554-039-41 | s  | SWITCH, PUSH                  |
| 739 | 1-554-039-51 | s  | SWITCH, PUSH                  |
| 740 | 1-571-169-11 | s  | SWITCH, TACTIL                |
| 741 | 1-571-169-21 | s  | SWITCH, TACTIL                |



## LEVEL CONTROL

## A detailed line drawing of the Sony RDP-1000 cassette deck, showing its internal components and front panel controls. The deck is shown from a three-quarter perspective, highlighting the internal tape transport mechanism, including the reels, capstans, and various guides. The front panel features a digital display, several buttons, and a large volume knob. The overall design is sleek and functional, typical of high-quality audio equipment from that era.

BVTT3×6

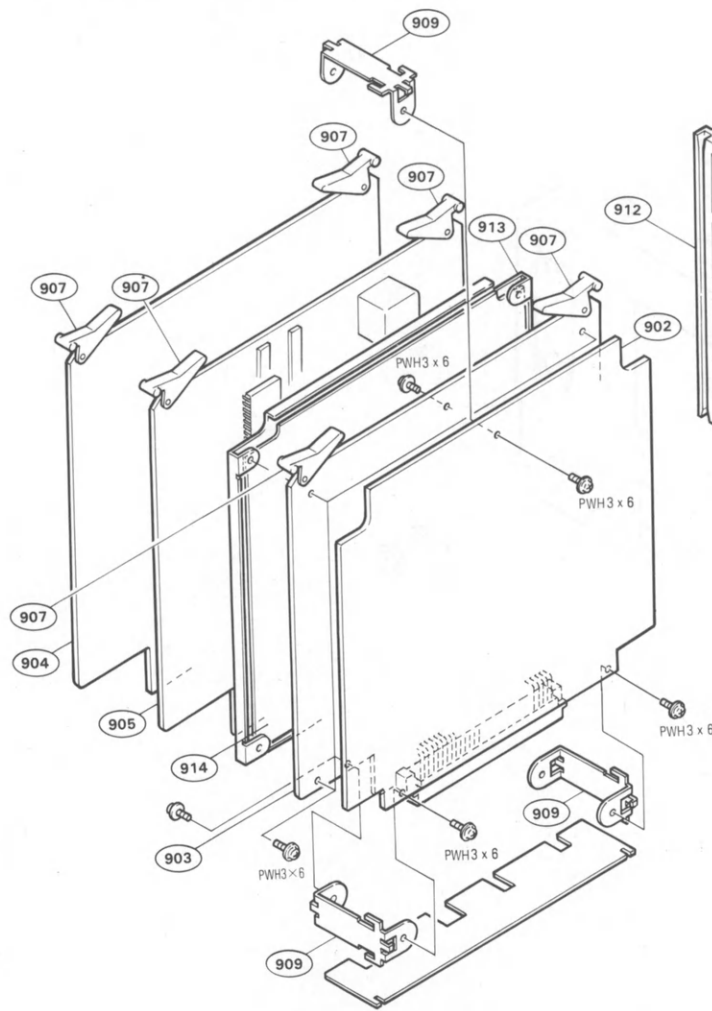
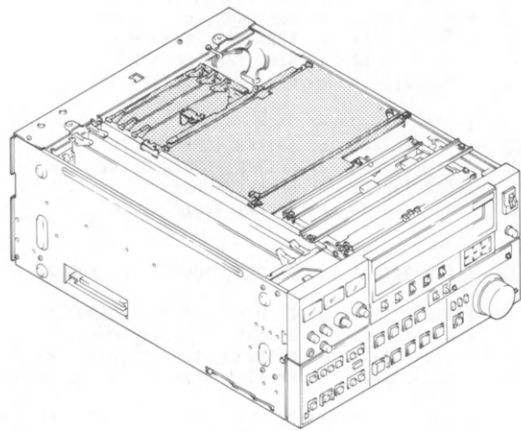
B2.6 x 4

82.6×4

B2.6×4

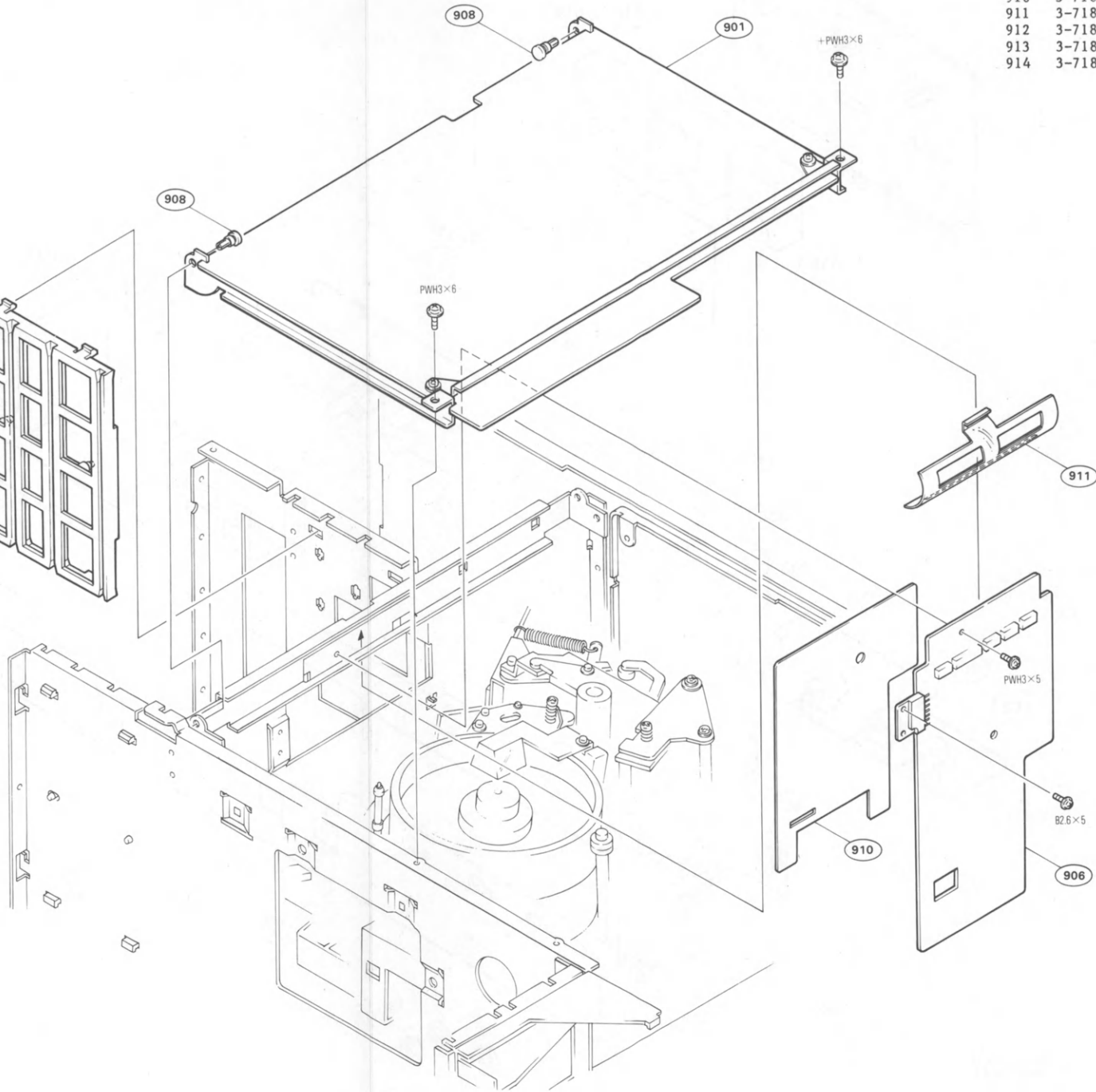


10. CHASSIS BLOCK (REAR)



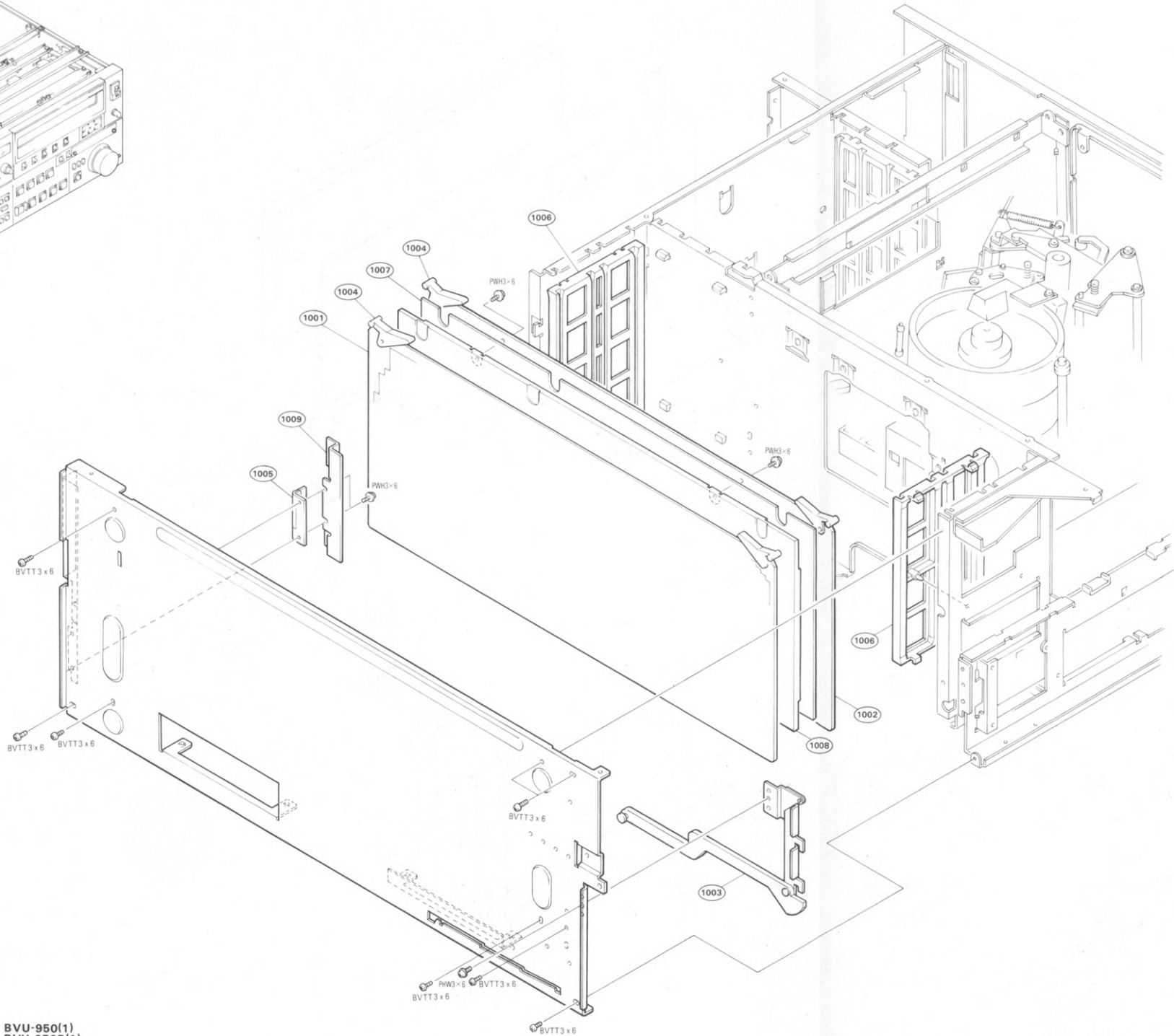
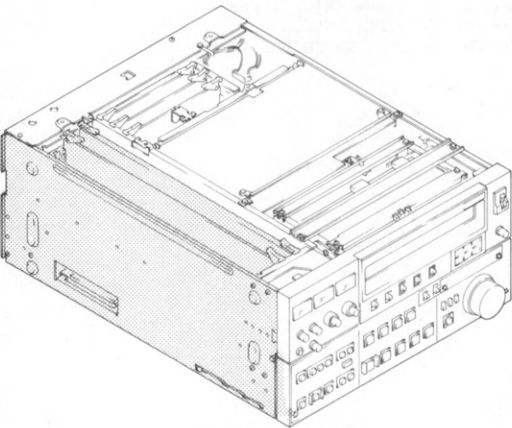
BVU-950(1)  
BVU-950P(1)

| No. | Parts No.    | SP | Description                  |
|-----|--------------|----|------------------------------|
| 901 | A-6711-826-A | o  | MOUNTED CIRCUIT BOARD, MD-44 |
| 902 | A-6713-284-A | o  | MOUNTED CIRCUIT BOARD, AU-83 |
| 903 | A-6713-285-A | o  | MOUNTED CIRCUIT BOARD, AU-84 |
| 904 | A-6713-286-A | o  | MOUNTED CIRCUIT BOARD, AU-85 |
| 905 | A-6725-572-A | o  | MOUNTED CIRCUIT BOARD, BC-11 |
| 906 | 1-622-725-11 | o  | PRINTED CIRCUIT BOARD, HN-80 |
| 907 | 2-251-622-00 | s  | LEVER, PC BOARD              |
| 908 | 3-646-090-00 | s  | RIVET, NYLON                 |
| 909 | 3-718-655-01 | o  | JOINT, AU                    |
| 910 | 3-718-667-01 | o  | PROTECTOR, PC BOARD          |
| 911 | 3-718-668-01 | o  | PROTECTOR (A), HARNESS       |
| 912 | 3-718-709-01 | o  | GUIDE (B), PCB               |
| 913 | 3-718-710-01 | o  | PLATE (SMALL), SHIELD        |
| 914 | 3-718-711-01 | o  | SHEET (SMALL), INSULATING    |





11. CHASSIS BLOCK (LEFT)

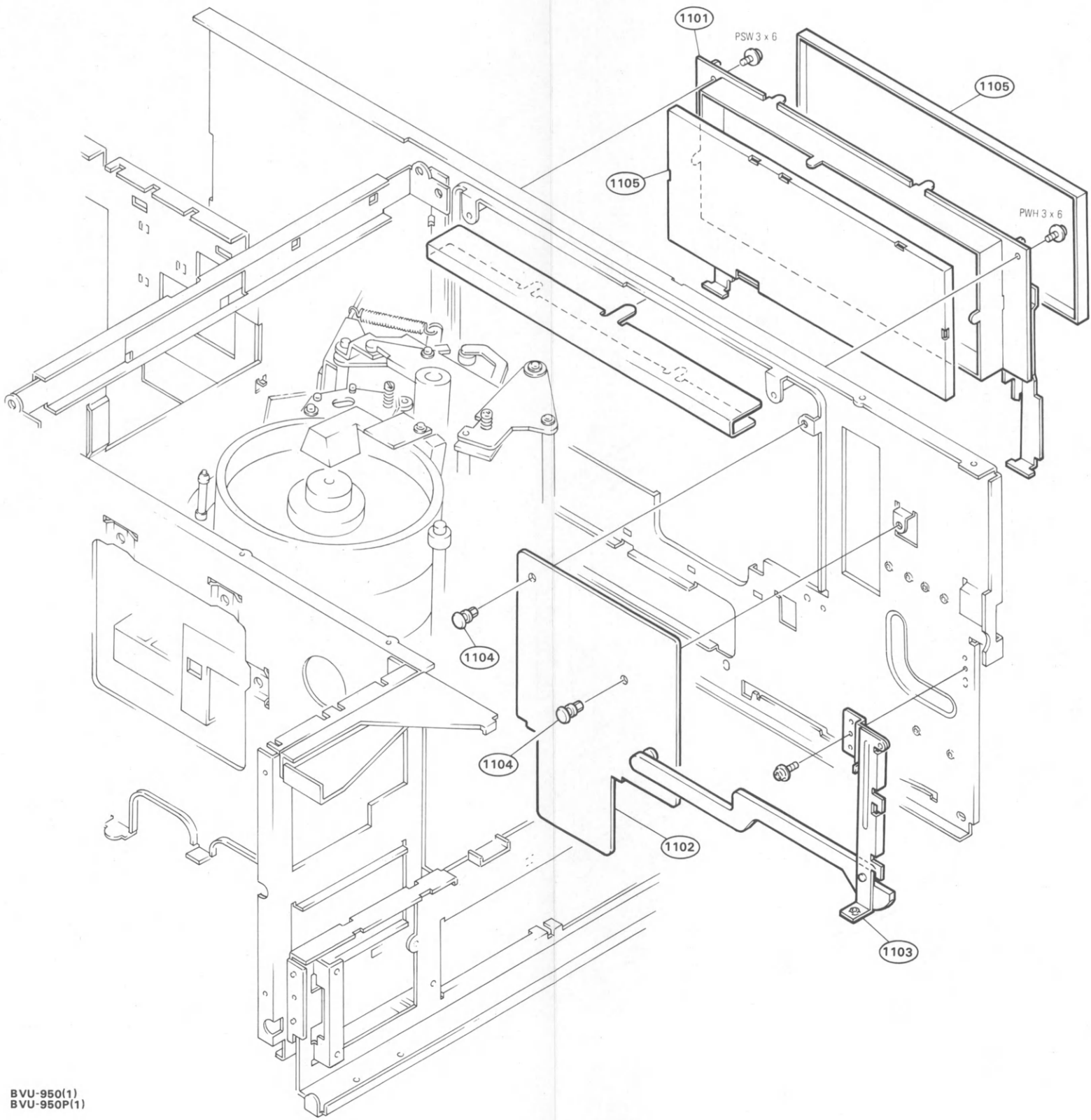
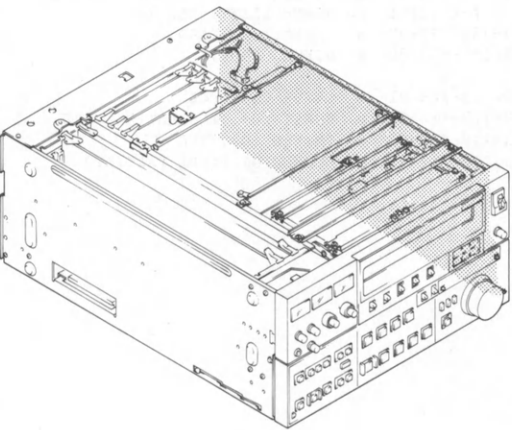


BVU-950(1)  
BVU-950P(1)

| No.  | Parts No.    | SP | Description                  |
|------|--------------|----|------------------------------|
| 1001 | A-6711-824-A | o  | MOUNTED CIRCUIT BOARD, DM-54 |
| 1002 | A-6715-369-A | o  | MOUNTED CIRCUIT BOARD, SV-88 |
| 1003 | X-3718-617-1 | o  | HINGE (LEFT) ASS'Y           |
| 1004 | 2-251-622-00 | s  | LEVER, PC BOARD              |
| 1005 | 3-651-875-00 | s  | HINGE, FRONT                 |
| 1006 | 3-718-708-01 | o  | GUIDE (A), PCB               |
| 1007 | 3-718-714-01 | o  | SHEET (C), INSULATING, TBC   |
| 1008 | 3-718-738-01 | o  | SHIELD (C), TBC              |
| 1009 | 3-718-772-01 | o  | CONNECTOR PANEL (ASSIST)     |



12. CHASSIS BLOCK (RIGHT)

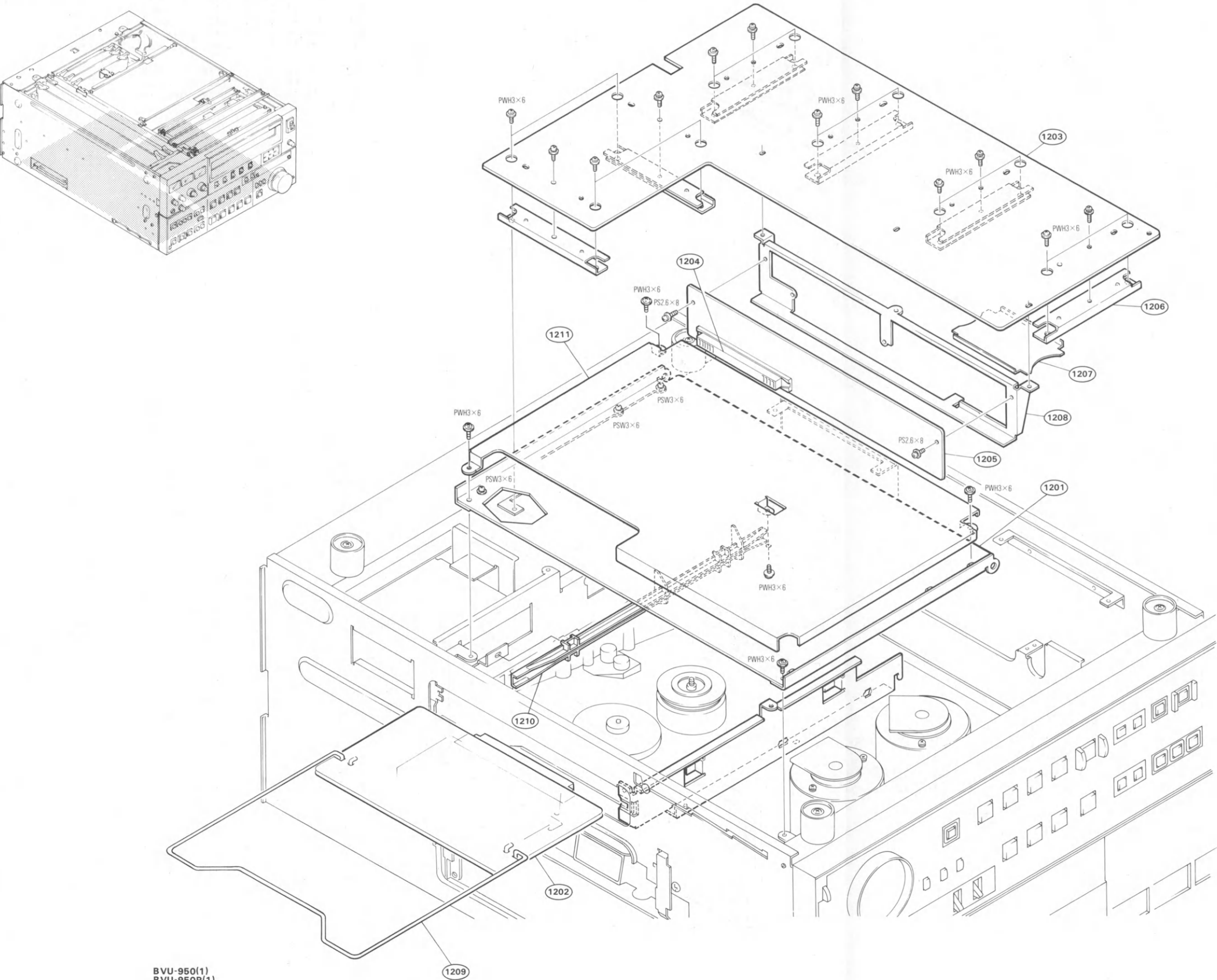


| No.  | Parts No.    | SP | Description                  |
|------|--------------|----|------------------------------|
| 1101 | A-6711-825-A | o  | MOUNTED CIRCUIT BOARD, RP-30 |
| 1102 | A-6717-458-A | o  | MOUNTED CIRCUIT BOARD, PD-37 |
| 1103 | X-3718-618-1 | o  | HINGE (RIGHT) ASS'Y          |
| 1104 | 3-646-090-00 | s  | RIVET, NYLON                 |
| 1105 | 3-718-724-01 | o  | LID, RP SHIELD CASE          |

BVU-950(1)  
BVU-950P(1)



13. CHASSIS BLOCK (BOTTOM)

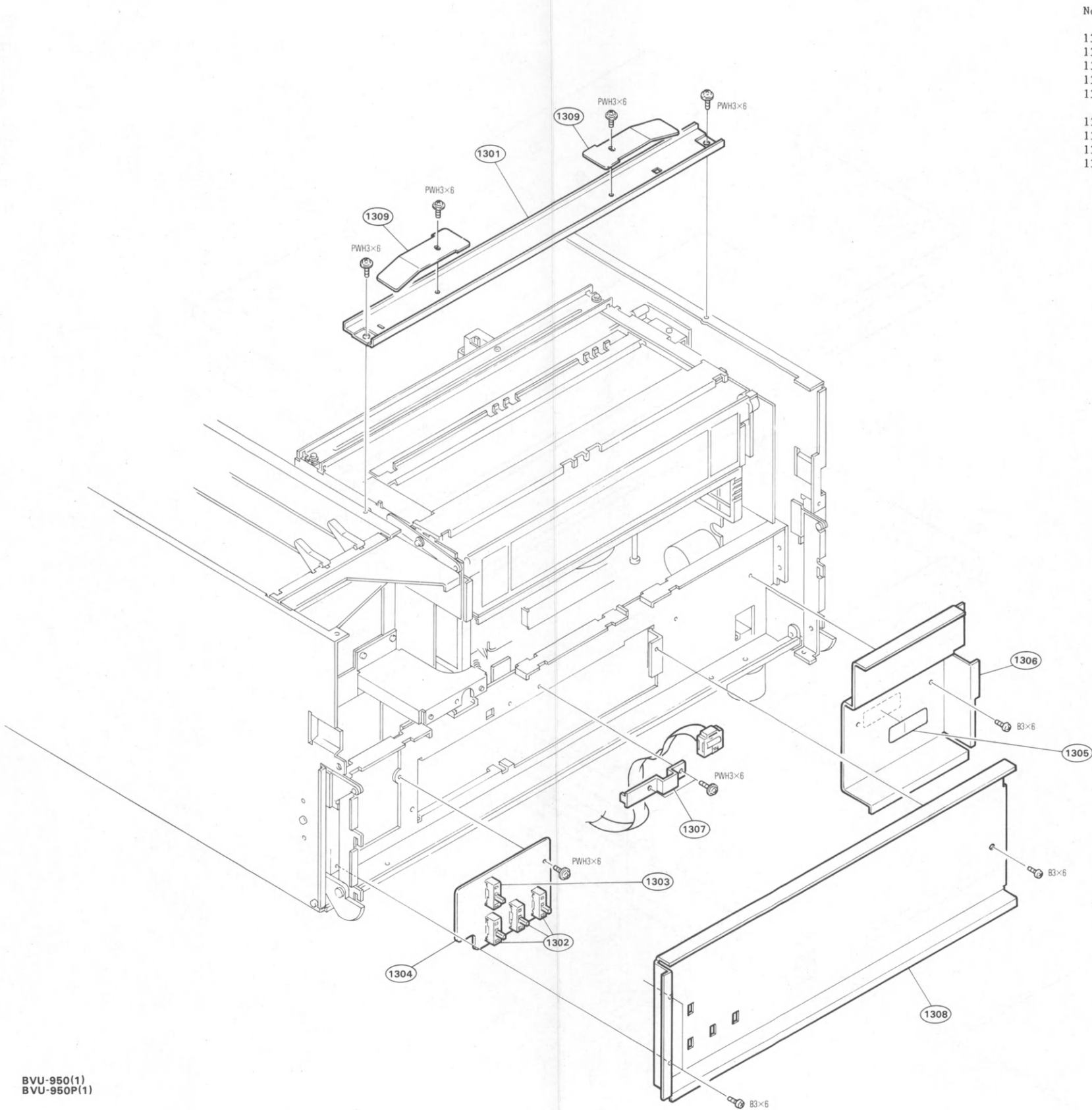
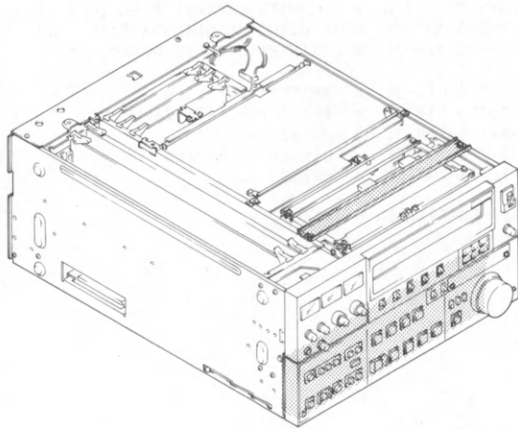


| No.  | Parts No.    | SP | Description                   |
|------|--------------|----|-------------------------------|
| 1201 | A-6717-457-A | o  | MOUNTED CIRCUIT BOARD, SY-102 |
| 1202 | A-6717-460-A | o  | MOUNTED CIRCUIT BOARD, DSC-44 |
| 1203 | A-6729-502-A | o  | MOUNTED CIRCUIT BOARD, MB-127 |
| 1204 | 1-563-336-21 | o  | HOUSING, CONNECTOR (DIP) 64P  |
| 1205 | 1-622-714-11 | o  | PRINTED CIRCUIT BOARD, MB-139 |
| 1206 | 3-718-616-01 | o  | BRACKET, MB                   |
| 1207 | 3-718-659-01 | o  | PROTECTOR (A), HARNESS        |
| 1208 | 3-718-720-01 | o  | JOINT, MB                     |
| 1209 | 3-718-728-01 | o  | HANDLE, PC BOARD              |
| 1210 | 3-718-790-01 | o  | GUIDE, TC                     |
| 1211 | 3-718-791-01 | o  | SIELD, SY                     |

BVU-950(1)  
BVU-950P(1)



14. CHASSIS BLOCK (FRONT)

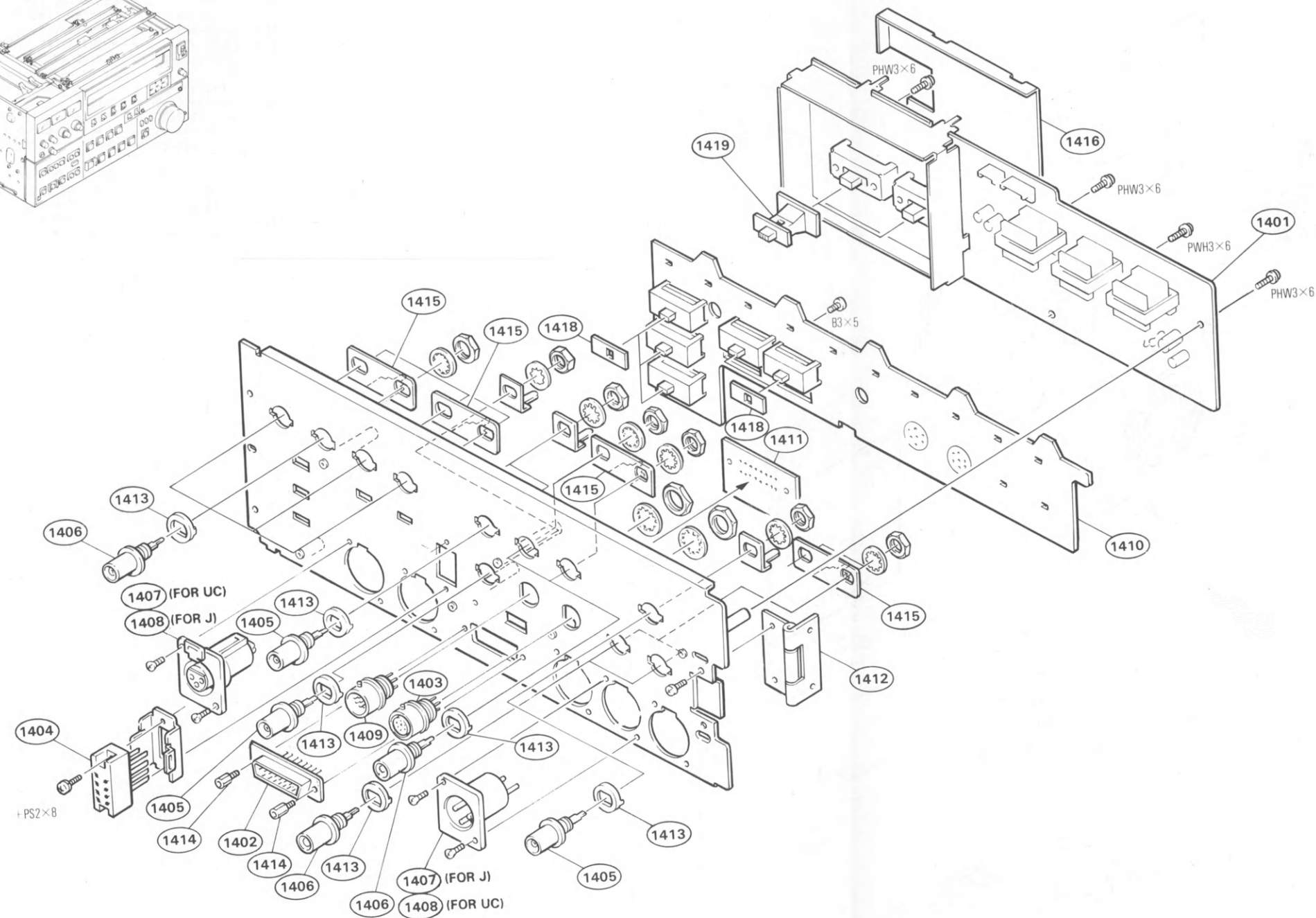
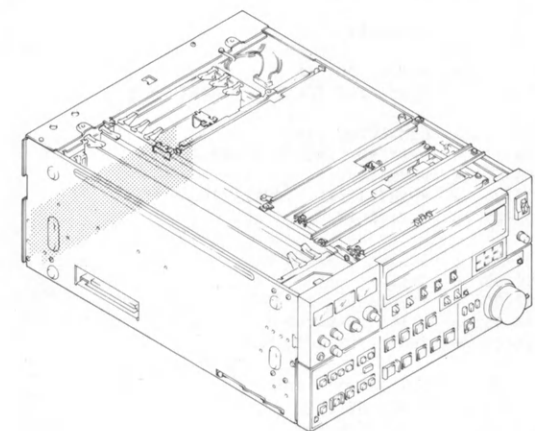


| No.  | Parts No.    | SP | Description                     |
|------|--------------|----|---------------------------------|
| 1301 | A-6730-955-A | o  | STAY BLOCK ASS'Y                |
| 1302 | 1-554-481-00 | s  | SWITCH, SLIDE                   |
| 1303 | 1-554-482-00 | s  | SWITCH, SLIDE                   |
| 1304 | 1-622-738-11 | o  | PRINTED CIRCUIT BOARD, SW-171   |
| 1305 | 3-703-848-01 | o  | LABEL (N), SUB CAUTION (For UC) |
| 1306 | 3-718-610-01 | o  | COVER (B), FRONT                |
| 1307 | 3-718-671-01 | o  | REATINER, CABLE                 |
| 1308 | 3-718-781-01 | o  | COVER, FRONT (A)                |
| 1309 | 3-668-425-00 | s  | SPRING                          |

BVU-950(1)  
BVU-950P(1)



# 15. CONNECTOR PANEL

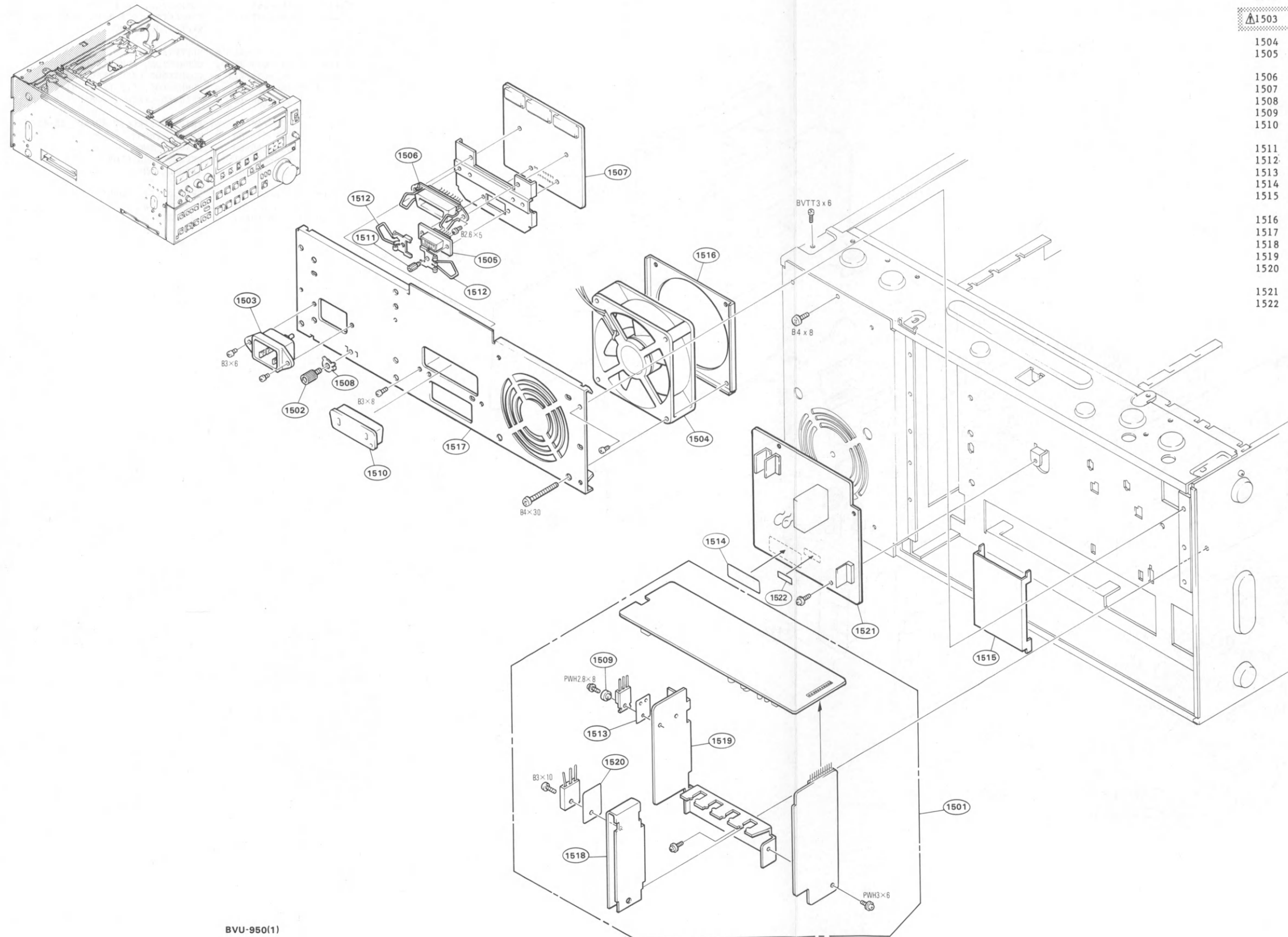


BVU-950(1)

| No.  | Parts No.    | SP | Description                   |
|------|--------------|----|-------------------------------|
| 1401 | A-6713-283-A | o  | MOUNTED CIEUIT BOARD, AU-87   |
| 1402 | 1-560-769-00 | s  | PLUG, CONNECTOR 15P           |
| 1403 | 1-561-045-21 | s  | CONNECTOR, (R-F)              |
| 1404 | 1-561-577-21 | s  | CONNECTOR (DIP TYPE) 8P       |
| 1405 | 1-562-227-21 | s  | RECEPTACLE, BNC               |
| 1406 | 1-562-227-41 | s  | RECEPTACLE, BNC               |
| 1407 | 1-563-029-21 | s  | CONNECTOR (RECEPTACLE) 3P     |
| 1408 | 1-563-030-21 | s  | CONNECTOR (RECEPTACLE) 3P     |
| 1409 | 1-566-622-11 | s  | CONNECTOR, DIRCLE (R-M) 7P    |
| 1410 | 1-622-706-11 | o  | PRINTED CIRCUIT BOARD, CP-109 |
| 1411 | 1-622-740-11 | o  | PRINTED CIRCUIT BOARD, RM-45  |
| 1412 | 3-651-875-00 | s  | HINGE, FRONT                  |
| 1413 | 3-654-545-00 | s  | SPACER, BNC                   |
| 1414 | 3-668-459-11 | o  | SCREW, CONNECTOR              |
| 1415 | 3-718-662-01 | o  | GROUND, BNC                   |
| 1416 | 3-718-688-01 | o  | SHIELD (B), INPUT             |
| 1418 | 3-718-757-01 | o  | CUSION, SW                    |
| 1419 | X-3718-626-1 | o  | SW ASS'Y                      |



# 16. REAR PANEL

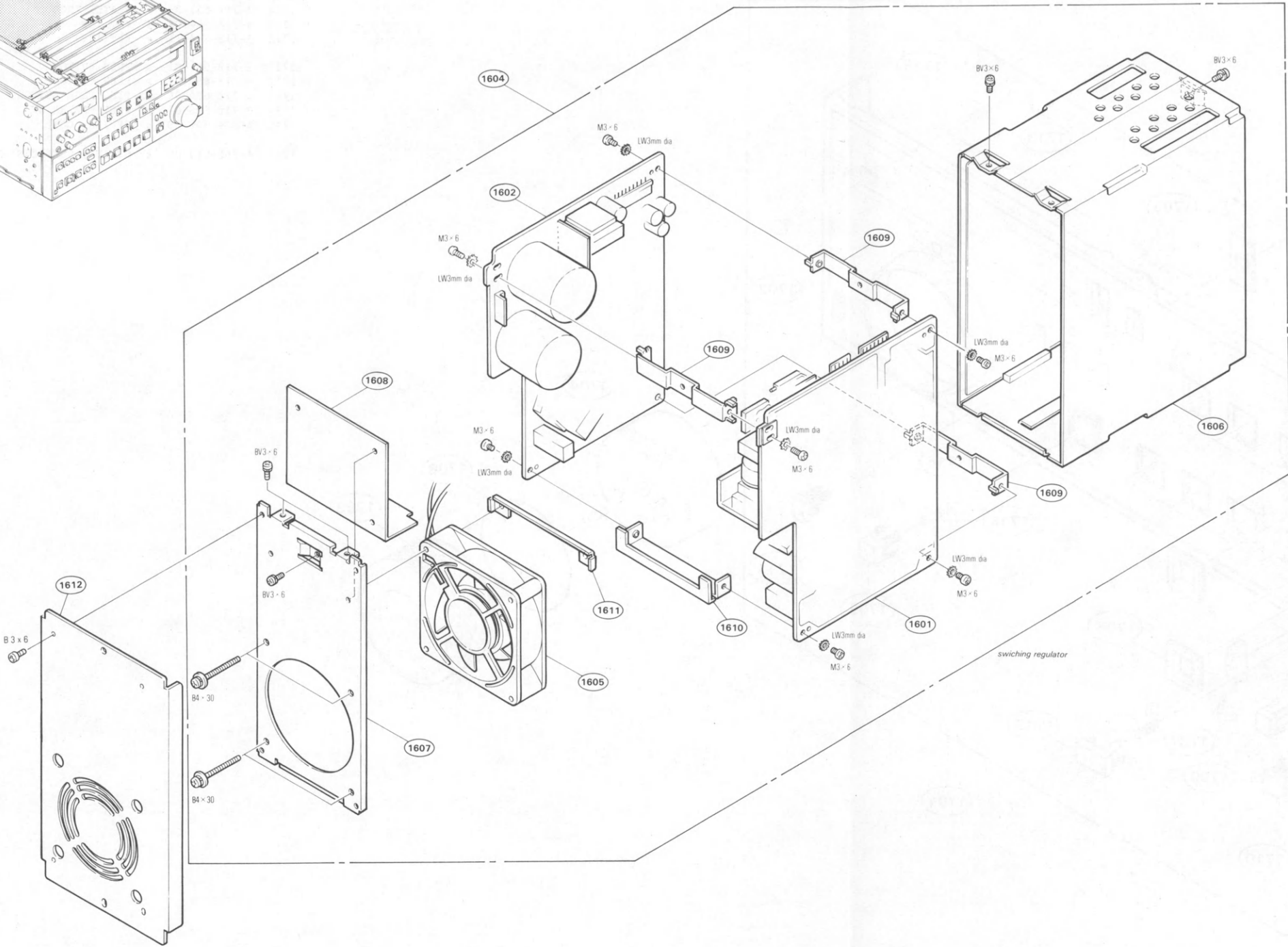
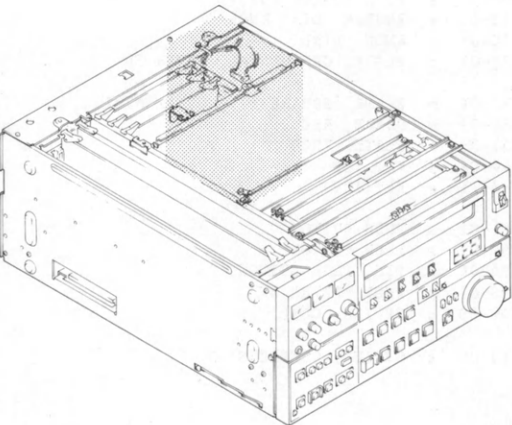


| No.  | Parts No.    | SP | Description                    |
|------|--------------|----|--------------------------------|
| 1501 | A-6715-367-A | o  | MOUNTED CIRCUIT BOARD, DR-53   |
| 1502 | X-2068-004-0 | s  | TERMINAL ASS'Y                 |
| 1503 | 1-509-547-00 | s  | AC INLET                       |
| 1504 | 1-541-524-11 | s  | MOTOR, DC FAN                  |
| 1505 | 1-561-655-00 | s  | CONNECTOR SOCKET, MINIATURE 9P |
| 1506 | 1-566-658-11 | s  | CONNECTOR 24P                  |
| 1507 | 1-622-739-11 | o  | PRINTED CIRCUIT BOARD, RM-44   |
| 1508 | 2-068-008-00 | s  | WASHER                         |
| 1509 | 2-832-007-00 | s  | BUSHING (K), INSULATING        |
| 1510 | 2-990-028-01 | o  | CAP, DUST                      |
| 1511 | 3-668-459-11 | o  | SCREW, CONNECTOR               |
| 1512 | 3-668-460-00 | o  | SPRING                         |
| 1513 | 3-703-037-00 | s  | INSULATOR, TO-220              |
| 1514 | 3-703-044-26 | o  | LABEL, CAUTION (For UC)        |
| 1515 | 3-718-684-01 | o  | PROTECTOR (C), HARNESS         |
| 1516 | 3-718-685-01 | o  | NUT, PLATE, FAN                |
| 1517 | 3-718-707-01 | o  | PANEL REAR                     |
| 1518 | 3-718-718-01 | o  | HEAT SINK (A)                  |
| 1519 | 3-718-719-01 | o  | HEAT SINK (B)                  |
| 1520 | 4-871-906-00 | s  | SHEET, INSULATING              |
| 1521 | 1-622-704-11 | o  | PRINTED CIRCUIT BOARD, AC-78   |
| 1522 | 3-701-947-17 | s  | LABEL, FUSE                    |

BVU-950(1)



17. SWITCHING REGULATOR

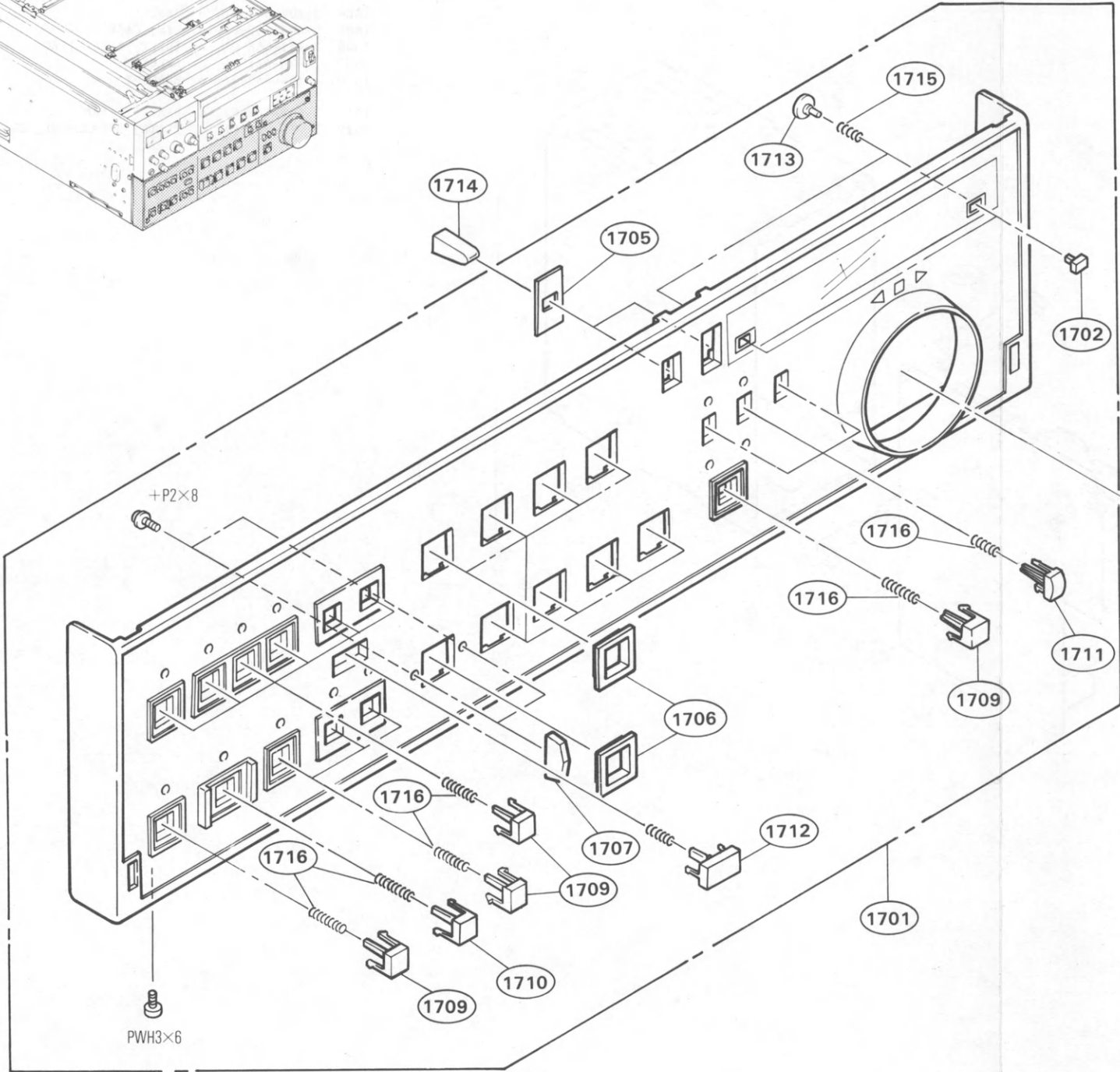
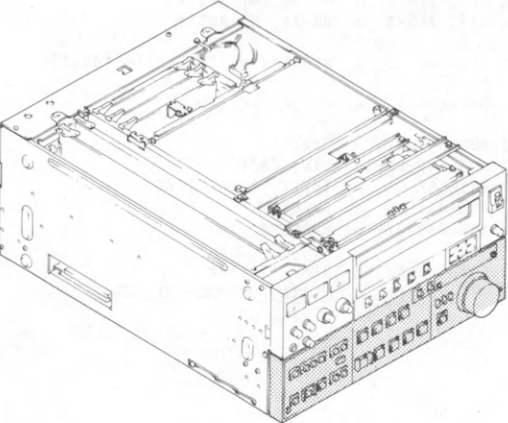


BVU-950(1)

| No.   | Parts No.    | SP | Description                 |
|-------|--------------|----|-----------------------------|
| 1601  | A-4925-214-A | o  | UR-21, M1 ASS'Y             |
| 1602  | A-4925-215-A | o  | UR-21, M2 ASS'Y             |
| ▲1604 | 1-413-307-11 | s  | REGULATOR, SWITCHING (UR21) |
| 1605  | 1-541-484-11 | s  | MOTOR, DC FAN               |
| 1606  | 2-403-696-01 | o  | CASE                        |
| 1607  | 2-403-697-01 | o  | LID, CASE                   |
| 1608  | 2-431-668-01 | o  | SHEET, INSULATING           |
| 1609  | 2-434-441-01 | o  | BRACKET                     |
| 1610  | 2-434-442-01 | o  | BRACKET                     |
| 1611  | 2-434-443-01 | o  | BRACKET, FAN                |
| 1612  | 3-718-702-01 | o  | PLATE, ORNAMENTAL, SW       |

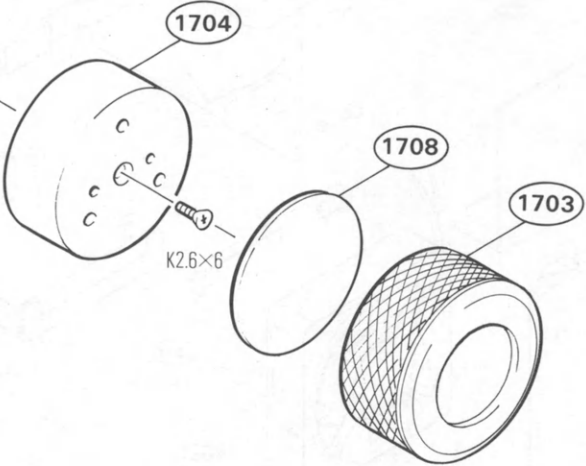


18. ORNAMENTAL PANEL(1)



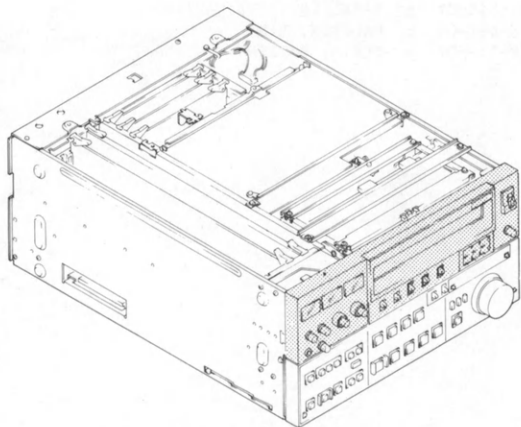
BVU-950(1)  
BVU-950P(1)

| No.  | Parts No.    | SP | Description                   |
|------|--------------|----|-------------------------------|
| 1701 | A-6704-270-A | o  | PANEL BLOCK ASS'Y, KEY        |
| 1702 | 3-668-008-02 | s  | PUSH BUTTON (3X5)             |
| 1703 | 3-668-012-00 | s  | RUBBER, DIAL KNOB             |
| 1704 | 3-717-370-01 | o  | KNOB, DIAL                    |
| 1705 | 3-717-373-01 | o  | PLATE, ORNOMENTAL, LEVER SW   |
| 1706 | 3-717-377-01 | o  | FLAME (SQUARE 17), ORNAMENTAL |
| 1707 | 3-717-380-01 | o  | GUARD, REC                    |
| 1708 | 3-717-557-01 | o  | PLATE, KNOB                   |
| 1709 | 3-718-664-01 | s  | KEY TOP                       |
| 1710 | 3-718-664-11 | s  | KEY TOP                       |
| 1711 | 3-718-681-01 | s  | PUSH BUTTON                   |
| 1712 | 3-718-682-01 | s  | PUSH BUTTON                   |
| 1713 | 3-718-694-01 | s  | PIN, PUSH BUTTON              |
| 1714 | 3-718-698-01 | s  | KNOB, LEVER SW                |
| 1715 | 4-309-349-00 | s  | SPRING, COIL                  |
| 1716 | 4-866-613-00 | s  | SPRING, COMPRESSION           |

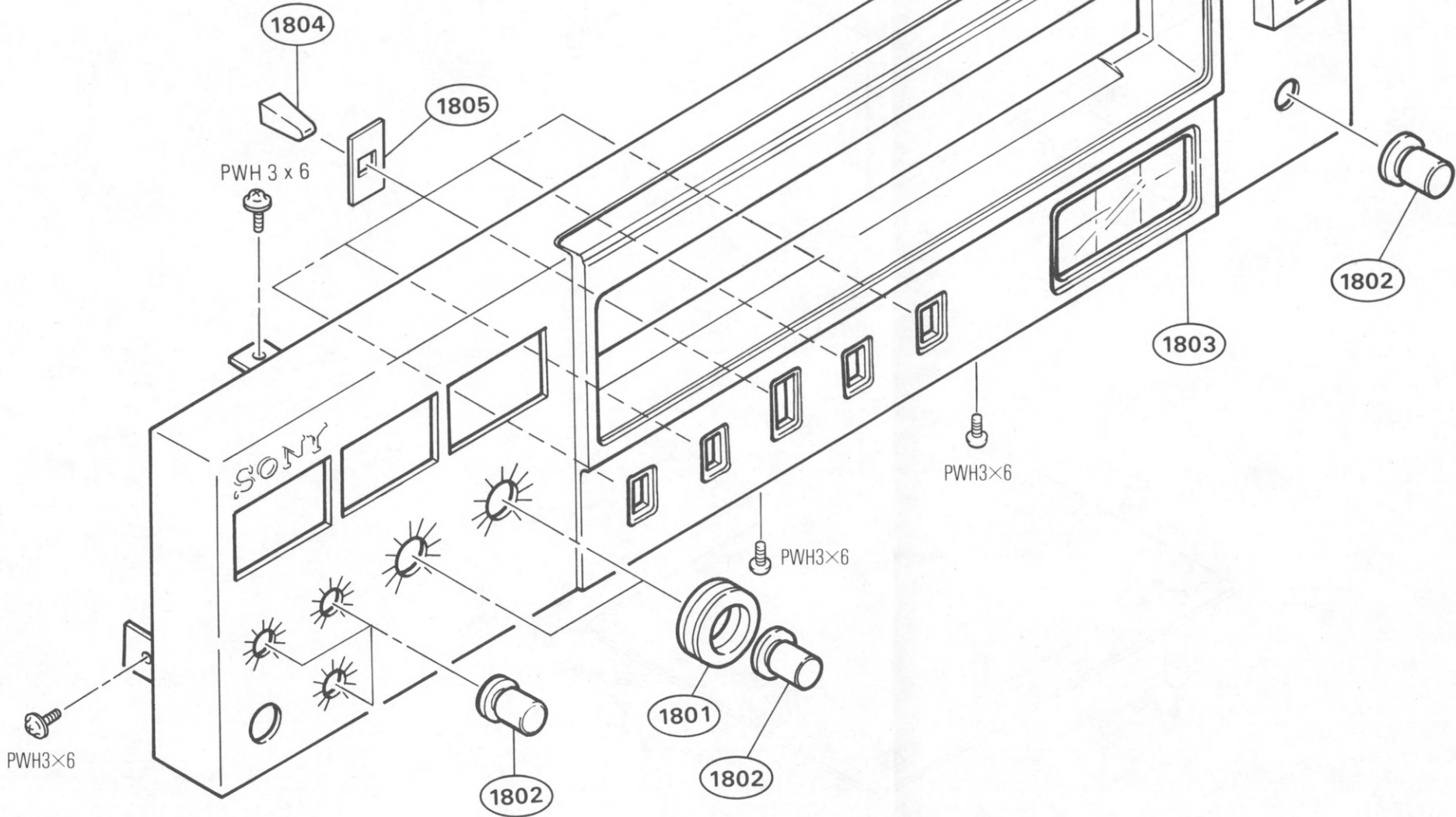




19. ORNAMENTAL PANEL(2)



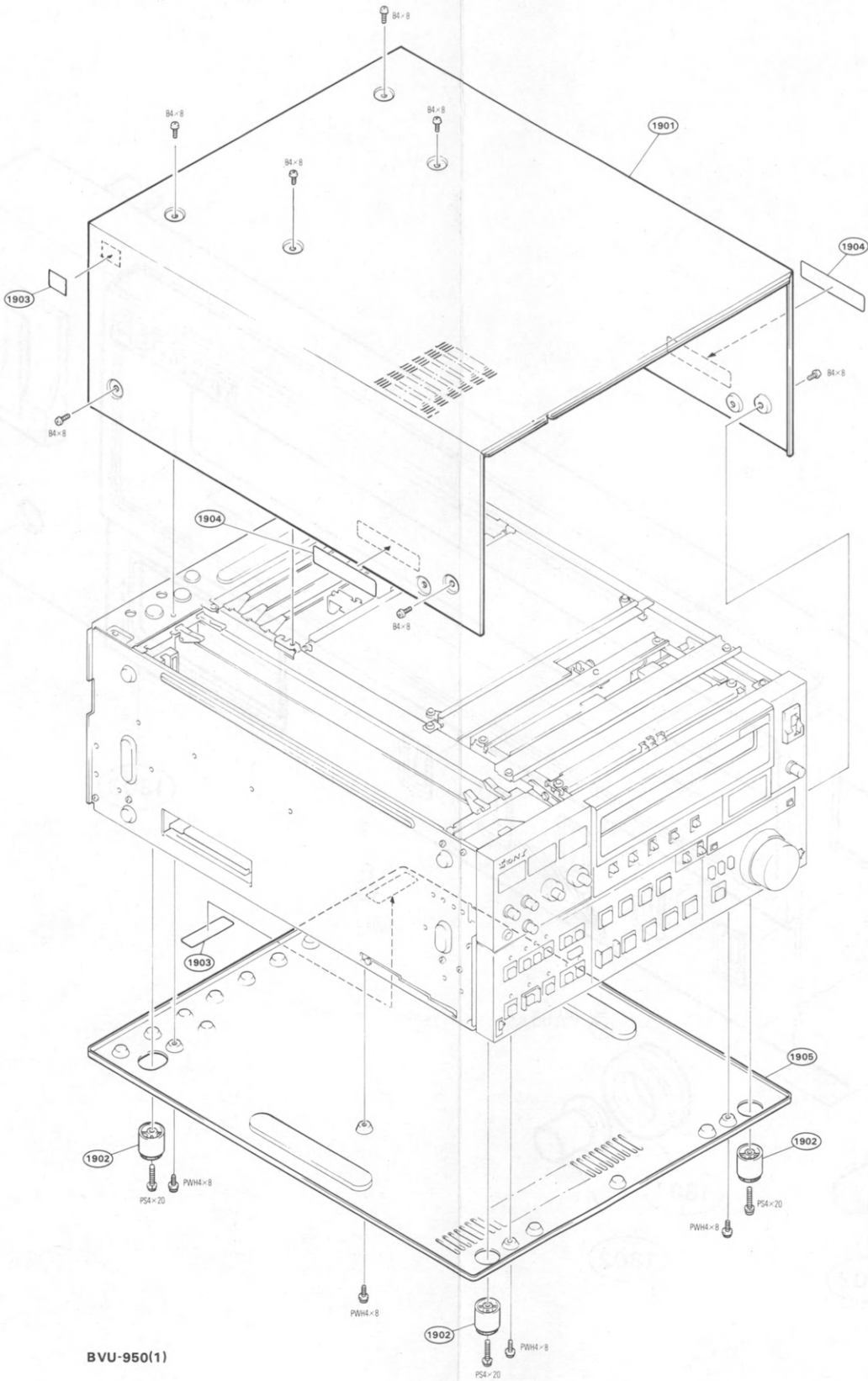
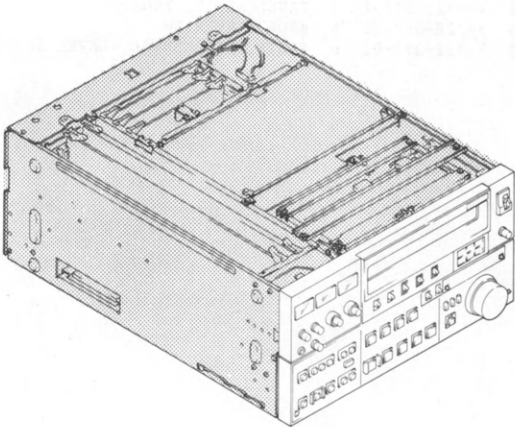
| No.  | Parts No.    | SP | Description                 |
|------|--------------|----|-----------------------------|
| 1801 | X-3668-056-2 | s  | KNOB (W) ASS'Y, CONTROL     |
| 1802 | X-3672-707-1 | s  | KNOB ASS'Y, VOLUME          |
| 1803 | X-3718-620-1 | o  | PANEL ASS'Y, FRONT          |
| 1804 | 3-718-698-01 | s  | KNOB, LEVER SW              |
| 1805 | 3-717-373-01 | o  | PLATE, ORNAMENTAL, LEVER SW |



BVU-950(1)  
BVU-950P(1)



20. ORNAMENTAL PANEL(3)



| No.  | Parts No.    | SP | Description            |
|------|--------------|----|------------------------|
| 1901 | X-3718-625-1 | o  | CASE ASS'Y, U          |
| 1902 | 3-642-656-01 | s  | LEG                    |
| 1903 | 3-703-848-01 | o  | LABEL (N), SUB CAUTION |
| 1904 | 3-718-691-01 | o  | CAUTION, VIS           |
| 1905 | 3-718-739-01 | o  | PLATE, BOTTOM          |



## 18-3. ELECTRICAL PARTS LIST

### General Purpose Electrical Parts List

Parts that are not listed in the "reference numbers order list" are shown in following list.  
Reference numbers are omitted.

| Part No.         | SP | Description                 | Part No.        | SP | Description                 |
|------------------|----|-----------------------------|-----------------|----|-----------------------------|
| <u>CAPACITOR</u> |    |                             | <u>TANTALUM</u> |    |                             |
| . CERAMIC        |    |                             | 1-131-396-11    | s  | CAP, TANTALUM 0.01 20% 35V  |
| 1-161-039-00     | s  | CAP, CERAMIC 0.001 10% 50V  | 1-131-397-11    | s  | CAP, TANTALUM 0.015 20% 35V |
| 1-161-041-00     | s  | CAP, CERAMIC 0.0015 10% 50V | 1-131-398-11    | s  | CAP, TANTALUM 0.022 20% 35V |
| 1-161-043-00     | s  | CAP, CERAMIC 0.0022 10% 50V | 1-131-399-11    | s  | CAP, TANTALUM 0.033 20% 35V |
| 1-161-045-00     | s  | CAP, CERAMIC 0.0033 10% 50V | 1-131-400-11    | s  | CAP, TANTALUM 0.047 20% 35V |
| 1-161-047-00     | s  | CAP, CERAMIC 0.0047 10% 50V | 1-131-401-21    | s  | CAP, TANTALUM 0.068 10% 35V |
| 1-161-049-00     | s  | CAP, CERAMIC 0.0068 10% 50V | 1-131-341-21    | s  | CAP, TANTALUM 0.1 10% 35V   |
| 1-161-051-00     | s  | CAP, CERAMIC 0.01 10% 50V   | 1-131-342-21    | s  | CAP, TANTALUM 0.15 10% 35V  |
| 1-161-053-00     | s  | CAP, CERAMIC 0.015 10% 50V  | 1-131-343-21    | s  | CAP, TANTALUM 0.22 10% 35V  |
| 1-161-055-00     | s  | CAP, CERAMIC 0.022 10% 50V  | 1-131-344-21    | s  | CAP, TANTALUM 0.33 10% 35V  |
| 1-161-057-00     | s  | CAP, CERAMIC 0.033 10% 50V  | 1-131-412-11    | s  | CAP, TANTALUM 0.47 20% 20V  |
| 1-161-021-11     | s  | CAP, CERAMIC 0.047 10% 25V  | 1-131-345-21    | s  | CAP, TANTALUM 0.47 10% 35V  |
| 1-161-059-00     | s  | CAP, CERAMIC 0.047 10% 50V  | 1-131-410-11    | s  | CAP, TANTALUM 0.68 20% 25V  |
| 1-161-061-00     | s  | CAP, CERAMIC 0.068 10% 50V  | 1-131-346-21    | s  | CAP, TANTALUM 0.68 10% 35V  |
| 1-161-772-11     | s  | CAP, CERAMIC 0.1 10% 25V    | 1-131-413-11    | s  | CAP, TANTALUM 1.0 20% 20V   |
| 1-161-063-00     | s  | CAP, CERAMIC 0.1 10% 50V    | 1-131-347-21    | s  | CAP, TANTALUM 1.0 10% 35V   |
| . MYLAR          |    |                             | 1-131-416-11    | s  | CAP, TANTALUM 1.5 20% 16V   |
| 1-130-467-00     | s  | CAP, MYLAR 470pF 5% 50V     | 1-131-348-21    | s  | CAP, TANTALUM 1.5 10% 35V   |
| 1-130-468-00     | s  | CAP, MYLAR 560pF 5% 50V     | 1-131-419-11    | s  | CAP, TANTALUM 2.2 20% 10V   |
| 1-130-469-00     | s  | CAP, MYLAR 680pF 5% 50V     | 1-131-361-21    | s  | CAP, TANTALUM 2.2 10% 20V   |
| 1-130-470-00     | s  | CAP, MYLAR 820pF 5% 50V     | 1-131-349-21    | s  | CAP, TANTALUM 2.2 10% 35V   |
| 1-130-471-00     | s  | CAP, MYLAR 1000pF 5% 50V    | 1-131-422-11    | s  | CAP, TANTALUM 3.3 20% 6.3V  |
| 1-130-472-00     | s  | CAP, MYLAR 1200pF 5% 50V    | 1-131-368-21    | s  | CAP, TANTALUM 3.3 10% 16V   |
| 1-130-473-00     | s  | CAP, MYLAR 1500pF 5% 50V    | 1-131-356-21    | s  | CAP, TANTALUM 3.3 10% 25V   |
| 1-130-474-00     | s  | CAP, MYLAR 1800pF 5% 50V    | 1-131-350-21    | s  | CAP, TANTALUM 3.3 10% 35V   |
| 1-130-475-00     | s  | CAP, MYLAR 2200pF 5% 50V    | 1-131-425-11    | s  | CAP, TANTALUM 4.7 20% 3.15V |
| 1-130-476-00     | s  | CAP, MYLAR 2700pF 5% 50V    | 1-131-375-21    | s  | CAP, TANTALUM 4.7 10% 10V   |
| 1-130-477-00     | s  | CAP, MYLAR 3300pF 5% 50V    | 1-131-363-21    | s  | CAP, TANTALUM 4.7 10% 20V   |
| 1-130-478-00     | s  | CAP, MYLAR 3900pF 5% 50V    | 1-131-351-21    | s  | CAP, TANTALUM 4.7 10% 35V   |
| 1-130-479-00     | s  | CAP, MYLAR 4700pF 5% 50V    | 1-131-382-21    | s  | CAP, TANTALUM 6.8 10% 6.3V  |
| 1-130-480-00     | s  | CAP, MYLAR 5600pF 5% 50V    | 1-131-370-21    | s  | CAP, TANTALUM 6.8 10% 16V   |
| 1-130-481-00     | s  | CAP, MYLAR 6800pF 5% 50V    | 1-131-358-21    | s  | CAP, TANTALUM 6.8 10% 25V   |
| 1-130-482-00     | s  | CAP, MYLAR 8200pF 5% 50V    | 1-131-352-21    | s  | CAP, TANTALUM 6.8 10% 35V   |
| 1-130-483-00     | s  | CAP, MYLAR 0.01 5% 50V      | 1-131-389-21    | s  | CAP, TANTALUM 10 10% 3.15V  |
| 1-130-484-00     | s  | CAP, MYLAR 0.012 5% 50V     | 1-131-377-21    | s  | CAP, TANTALUM 10 10% 10V    |
| 1-130-485-00     | s  | CAP, MYLAR 0.015 5% 50V     | 1-131-365-21    | s  | CAP, TANTALUM 10 10% 20V    |
| 1-130-486-00     | s  | CAP, MYLAR 0.018 5% 50V     | 1-131-353-21    | s  | CAP, TANTALUM 10 10% 35V    |
| 1-130-487-00     | s  | CAP, MYLAR 0.022 5% 50V     | 1-131-384-21    | s  | CAP, TANTALUM 15 10% 6.3V   |
| 1-130-488-00     | s  | CAP, MYLAR 0.027 5% 50V     | 1-131-372-21    | s  | CAP, TANTALUM 15 10% 16V    |
| 1-130-489-00     | s  | CAP, MYLAR 0.033 5% 50V     | 1-131-360-21    | s  | CAP, TANTALUM 15 10% 25V    |
| 1-130-490-11     | s  | CAP, MYLAR 0.039 5% 50V     | 1-131-391-21    | s  | CAP, TANTALUM 22 10% 3.15V  |
| 1-130-491-00     | s  | CAP, MYLAR 0.047 5% 50V     | 1-131-379-21    | s  | CAP, TANTALUM 22 10% 10V    |
| 1-130-492-11     | s  | CAP, MYLAR 0.056 5% 50V     | 1-131-367-21    | s  | CAP, TANTALUM 22 10% 20V    |
| 1-130-493-00     | s  | CAP, MYLAR 0.068 5% 50V     | 1-131-386-21    | s  | CAP, TANTALUM 33 10% 6.3V   |
| 1-130-494-11     | s  | CAP, MYLAR 0.082 5% 50V     | 1-131-374-21    | s  | CAP, TANTALUM 33 10% 16V    |
| 1-130-495-00     | s  | CAP, MYLAR 0.1 5% 50V       | 1-131-393-21    | s  | CAP, TANTALUM 47 10% 3.15V  |
| 1-130-496-00     | s  | CAP, MYLAR 0.12 5% 50V      | 1-131-381-21    | s  | CAP, TANTALUM 47 10% 10V    |
| 1-130-497-00     | s  | CAP, MYLAR 0.15 5% 50V      | 1-131-388-21    | s  | CAP, TANTALUM 68 10% 6.3V   |
| 1-130-498-00     | s  | CAP, MYLAR 0.18 5% 50V      | 1-131-395-21    | s  | CAP, TANTALUM 100 10% 3.15V |
| 1-130-499-00     | s  | CAP, MYLAR 0.22 5% 50V      |                 |    |                             |
| 1-136-502-11     | s  | CAP, MYLAR 0.33 5% 50V      |                 |    |                             |



Part No. SP Description

. ELECTROLYTIC

|              |   |            |      |     |      |
|--------------|---|------------|------|-----|------|
| 1-124-902-00 | s | CAP, ELECT | 0.47 | 20% | 50V  |
| 1-124-791-11 | s | CAP, ELECT | 1.0  | 20% | 100V |
| 1-124-925-11 | s | CAP, ELECT | 2.2  | 20% | 100V |
| 1-123-382-00 | s | CAP, ELECT | 3.3  | 20% | 100V |
| 1-124-927-00 | s | CAP, ELECT | 4.7  | 20% | 100V |
|              |   |            |      |     |      |
| 1-123-875-91 | s | CAP, ELECT | 10   | 20% | 50V  |
| 1-124-915-11 | s | CAP, ELECT | 10   | 20% | 63V  |
| 1-124-667-11 | s | CAP, ELECT | 10   | 20% | 100V |
| 1-124-908-11 | s | CAP, ELECT | 22   | 20% | 50V  |
| 1-124-916-11 | s | CAP, ELECT | 22   | 20% | 63V  |
|              |   |            |      |     |      |
| 1-124-929-11 | s | CAP, ELECT | 22   | 20% | 100V |
| 1-124-963-11 | s | CAP, ELECT | 33   | 20% | 16V  |
| 1-124-482-11 | s | CAP, ELECT | 33   | 20% | 35V  |
| 1-124-917-11 | s | CAP, ELECT | 33   | 20% | 63V  |
| 1-124-930-11 | s | CAP, ELECT | 33   | 20% | 100V |
|              |   |            |      |     |      |
| 1-124-446-11 | s | CAP, ELECT | 47   | 20% | 10V  |
| 1-124-477-11 | s | CAP, ELECT | 47   | 20% | 25V  |
| 1-124-910-11 | s | CAP, ELECT | 47   | 20% | 50V  |
| 1-124-918-11 | s | CAP, ELECT | 47   | 20% | 63V  |
| 1-124-931-11 | s | CAP, ELECT | 47   | 20% | 100V |
|              |   |            |      |     |      |
| 1-124-443-00 | s | CAP, ELECT | 100  | 20% | 10V  |
| 1-126-101-11 | s | CAP, ELECT | 100  | 20% | 16V  |
| 1-124-478-11 | s | CAP, ELECT | 100  | 20% | 25V  |
| 1-124-122-11 | s | CAP, ELECT | 100  | 20% | 50V  |
| 1-124-572-11 | s | CAP, ELECT | 100  | 20% | 63V  |
|              |   |            |      |     |      |
| 1-123-605-00 | s | CAP, ELECT | 100  | 20% | 100V |
| 1-124-444-00 | s | CAP, ELECT | 220  | 20% | 10V  |
| 1-124-120-11 | s | CAP, ELECT | 220  | 20% | 25V  |
| 1-124-484-11 | s | CAP, ELECT | 220  | 20% | 35V  |
| 1-124-911-11 | s | CAP, ELECT | 220  | 20% | 50V  |
|              |   |            |      |     |      |
| 1-124-919-51 | s | CAP, ELECT | 220  | 20% | 63V  |
| 1-124-628-11 | s | CAP, ELECT | 220  | 20% | 100V |
| 1-124-442-00 | s | CAP, ELECT | 330  | 20% | 6.3V |
| 1-124-604-00 | s | CAP, ELECT | 330  | 20% | 10V  |
| 1-124-119-00 | s | CAP, ELECT | 330  | 20% | 16V  |
|              |   |            |      |     |      |
| 1-124-479-11 | s | CAP, ELECT | 330  | 20% | 25V  |
| 1-124-485-11 | s | CAP, ELECT | 330  | 20% | 35V  |
| 1-124-912-11 | s | CAP, ELECT | 330  | 20% | 50V  |
| 1-124-472-11 | s | CAP, ELECT | 470  | 20% | 10V  |
| 1-124-475-11 | s | CAP, ELECT | 470  | 20% | 16V  |
|              |   |            |      |     |      |
| 1-124-480-11 | s | CAP, ELECT | 470  | 20% | 25V  |
| 1-126-104-11 | s | CAP, ELECT | 470  | 20% | 35V  |
| 1-124-913-11 | s | CAP, ELECT | 470  | 20% | 50V  |
| 1-124-921-11 | s | CAP, ELECT | 470  | 20% | 63V  |
| 1-124-471-00 | s | CAP, ELECT | 1000 | 20% | 6.3V |
|              |   |            |      |     |      |
| 1-124-473-11 | s | CAP, ELECT | 1000 | 20% | 10V  |
| 1-124-555-00 | s | CAP, ELECT | 1000 | 20% | 16V  |
| 1-124-557-11 | s | CAP, ELECT | 1000 | 20% | 25V  |
| 1-126-105-11 | s | CAP, ELECT | 1000 | 20% | 35V  |
| 1-124-637-11 | s | CAP, ELECT | 1000 | 20% | 50V  |
|              |   |            |      |     |      |
| 1-124-922-11 | s | CAP, ELECT | 1000 | 20% | 63V  |
| 1-124-893-11 | s | CAP, ELECT | 2200 | 20% | 10V  |
| 1-124-556-11 | s | CAP, ELECT | 2200 | 20% | 16V  |
| 1-124-563-11 | s | CAP, ELECT | 2200 | 20% | 25V  |
| 1-124-618-11 | s | CAP, ELECT | 2200 | 20% | 35V  |

Part No. SP Description

|              |   |            |       |     |      |
|--------------|---|------------|-------|-----|------|
| 1-124-607-11 | s | CAP, ELECT | 2200  | 20% | 50V  |
| 1-124-621-11 | s | CAP, ELECT | 3300  | 20% | 6.3V |
| 1-124-887-00 | s | CAP, ELECT | 3300  | 20% | 16V  |
| 1-124-636-00 | s | CAP, ELECT | 3300  | 20% | 25V  |
| 1-124-762-00 | s | CAP, ELECT | 4700  | 20% | 10V  |
|              |   |            |       |     |      |
| 1-124-898-11 | s | CAP, ELECT | 4700  | 20% | 16V  |
| 1-124-564-11 | s | CAP, ELECT | 4700  | 20% | 25V  |
| 1-124-891-11 | s | CAP, ELECT | 10000 | 20% | 6.3V |
| 1-124-763-00 | s | CAP, ELECT | 10000 | 20% | 10V  |



Part No. SP Description

. MICA, SILVERED

|              |   |           |       |        |      |
|--------------|---|-----------|-------|--------|------|
| 1-107-019-00 | s | CAP, MICA | 1.0pF | ±0.5pF | 500V |
| 1-107-039-00 | s | CAP, MICA | 1.2pF | ±0.5pF | 500V |
| 1-107-040-00 | s | CAP, MICA | 1.5pF | ±0.5pF | 500V |
| 1-107-041-00 | s | CAP, MICA | 1.8pF | ±0.5pF | 500V |
| 1-107-042-00 | s | CAP, MICA | 2.2pF | ±0.5pF | 500V |
| 1-107-043-00 | s | CAP, MICA | 2.7pF | ±0.5pF | 500V |
| 1-107-044-00 | s | CAP, MICA | 3.3pF | ±0.5pF | 500V |
| 1-107-045-00 | s | CAP, MICA | 3.9pF | ±0.5pF | 500V |
| 1-107-046-00 | s | CAP, MICA | 4.7pF | ±0.5pF | 500V |
| 1-107-026-00 | s | CAP, MICA | 5.1pF | ±0.5pF | 500V |
| 1-107-047-00 | s | CAP, MICA | 5.6pF | ±0.5pF | 500V |
| 1-107-048-00 | s | CAP, MICA | 6.8pF | ±0.5pF | 500V |
| 1-107-049-00 | s | CAP, MICA | 8.2pF | ±0.5pF | 500V |
| 1-107-202-00 | s | CAP, MICA | 10pF  | 5%     | 500V |
| 1-107-203-00 | s | CAP, MICA | 11pF  | 5%     | 500V |
| 1-107-204-00 | s | CAP, MICA | 12pF  | 5%     | 500V |
| 1-107-205-00 | s | CAP, MICA | 13pF  | 5%     | 500V |
| 1-107-206-00 | s | CAP, MICA | 15pF  | 5%     | 500V |
| 1-107-207-00 | s | CAP, MICA | 16pF  | 5%     | 500V |
| 1-107-208-00 | s | CAP, MICA | 18pF  | 5%     | 500V |
| 1-107-209-00 | s | CAP, MICA | 20pF  | 5%     | 500V |
| 1-107-210-00 | s | CAP, MICA | 22pF  | 5%     | 500V |
| 1-107-211-00 | s | CAP, MICA | 24pF  | 5%     | 500V |
| 1-107-157-00 | s | CAP, MICA | 27pF  | 5%     | 500V |
| 1-107-158-00 | s | CAP, MICA | 30pF  | 5%     | 500V |
| 1-107-159-00 | s | CAP, MICA | 33pF  | 5%     | 500V |
| 1-107-074-00 | s | CAP, MICA | 36pF  | 5%     | 50V  |
| 1-107-075-00 | s | CAP, MICA | 39pF  | 5%     | 50V  |
| 1-107-076-00 | s | CAP, MICA | 43pF  | 5%     | 50V  |
| 1-107-077-00 | s | CAP, MICA | 47pF  | 5%     | 50V  |
| 1-107-164-00 | s | CAP, MICA | 51pF  | 5%     | 500V |
| 1-107-165-00 | s | CAP, MICA | 56pF  | 5%     | 500V |
| 1-107-166-00 | s | CAP, MICA | 62pF  | 5%     | 500V |
| 1-107-036-00 | s | CAP, MICA | 68pF  | 5%     | 500V |
| 1-107-167-00 | s | CAP, MICA | 75pF  | 5%     | 500V |
| 1-107-083-00 | s | CAP, MICA | 82pF  | 5%     | 50V  |
| 1-107-084-00 | s | CAP, MICA | 91pF  | 5%     | 50V  |
| 1-107-085-00 | s | CAP, MICA | 100pF | 5%     | 50V  |
| 1-107-086-00 | s | CAP, MICA | 110pF | 5%     | 50V  |
| 1-107-087-00 | s | CAP, MICA | 120pF | 5%     | 50V  |
| 1-109-538-00 | s | CAP, MICA | 130pF | 5%     | 100V |
| 1-109-539-00 | s | CAP, MICA | 150pF | 5%     | 100V |
| 1-107-090-00 | s | CAP, MICA | 160pF | 5%     | 50V  |
| 1-109-540-00 | s | CAP, MICA | 180pF | 5%     | 100V |
| 1-109-541-00 | s | CAP, MICA | 200pF | 5%     | 100V |
| 1-109-542-00 | s | CAP, MICA | 220pF | 5%     | 100V |
| 1-109-545-00 | s | CAP, MICA | 270pF | 5%     | 100V |
| 1-109-547-00 | s | CAP, MICA | 330pF | 5%     | 100V |
| 1-109-549-00 | s | CAP, MICA | 390pF | 5%     | 100V |
| 1-109-633-00 | s | CAP, MICA | 470pF | 2%     | 500V |
| 1-109-555-00 | s | CAP, MICA | 560pF | 5%     | 100V |
| 1-109-635-00 | s | CAP, MICA | 470pF | 2%     | 500V |

Part No. SP Description

INDUCTOR

. MICRO

|              |   |                 |      |    |
|--------------|---|-----------------|------|----|
| 1-408-397-00 | s | INDUCTOR, MICRO | 1.0  | 5% |
| 1-408-399-00 | s | INDUCTOR, MICRO | 1.5  | 5% |
| 1-408-400-00 | s | INDUCTOR, MICRO | 1.8  | 5% |
| 1-408-401-00 | s | INDUCTOR, MICRO | 2.2  | 5% |
| 1-408-403-00 | s | INDUCTOR, MICRO | 3.3  | 5% |
| 1-408-404-00 | s | INDUCTOR, MICRO | 3.9  | 5% |
| 1-408-405-00 | s | INDUCTOR, MICRO | 4.7  | 5% |
| 1-408-406-00 | s | INDUCTOR, MICRO | 5.6  | 5% |
| 1-408-407-00 | s | INDUCTOR, MICRO | 6.8  | 5% |
| 1-408-408-00 | s | INDUCTOR, MICRO | 8.2  | 5% |
| 1-408-409-00 | s | INDUCTOR, MICRO | 10   | 5% |
| 1-408-410-00 | s | INDUCTOR, MICRO | 12   | 5% |
| 1-408-411-00 | s | INDUCTOR, MICRO | 15   | 5% |
| 1-408-412-00 | s | INDUCTOR, MICRO | 18   | 5% |
| 1-408-413-00 | s | INDUCTOR, MICRO | 22   | 5% |
| 1-408-414-00 | s | INDUCTOR, MICRO | 27   | 5% |
| 1-408-415-00 | s | INDUCTOR, MICRO | 33   | 5% |
| 1-408-416-00 | s | INDUCTOR, MICRO | 39   | 5% |
| 1-408-417-00 | s | INDUCTOR, MICRO | 47   | 5% |
| 1-408-418-00 | s | INDUCTOR, MICRO | 56   | 5% |
| 1-408-419-00 | s | INDUCTOR, MICRO | 68   | 5% |
| 1-408-420-00 | s | INDUCTOR, MICRO | 82   | 5% |
| 1-408-421-00 | s | INDUCTOR, MICRO | 100  | 5% |
| 1-408-422-00 | s | INDUCTOR, MICRO | 120  | 5% |
| 1-408-423-00 | s | INDUCTOR, MICRO | 150  | 5% |
| 1-408-424-00 | s | INDUCTOR, MICRO | 180  | 5% |
| 1-408-425-00 | s | INDUCTOR, MICRO | 220  | 5% |
| 1-408-426-00 | s | INDUCTOR, MICRO | 270  | 5% |
| 1-408-427-00 | s | INDUCTOR, MICRO | 330  | 5% |
| 1-408-428-00 | s | INDUCTOR, MICRO | 390  | 5% |
| 1-408-429-00 | s | INDUCTOR, MICRO | 470  | 5% |
| 1-410-116-11 | s | INDUCTOR, MICRO | 560  | 5% |
| 1-410-492-11 | s | INDUCTOR, MICRO | 680  | 5% |
| 1-410-493-11 | s | INDUCTOR, MICRO | 820  | 5% |
| 1-410-494-11 | s | INDUCTOR, MICRO | 1000 | 5% |



Part No. SP Description

RESISTOR

. CARBON

1-249-381-11 s RES, CARBON 1.0 5% 1/6W  
1-249-382-11 s RES, CARBON 1.2 5% 1/6W  
1-249-383-11 s RES, CARBON 1.5 5% 1/6W  
1-249-384-11 s RES, CARBON 1.8 5% 1/6W  
1-249-385-11 s RES, CARBON 2.2 5% 1/6W

1-249-386-11 s RES, CARBON 2.7 5% 1/6W  
1-249-387-11 s RES, CARBON 3.3 5% 1/6W  
1-249-388-11 s RES, CARBON 3.9 5% 1/6W  
1-249-389-11 s RES, CARBON 4.7 5% 1/6W  
1-249-390-11 s RES, CARBON 5.6 5% 1/6W

1-249-391-11 s RES, CARBON 6.8 5% 1/6W  
1-249-392-11 s RES, CARBON 8.2 5% 1/6W  
1-249-393-11 s RES, CARBON 10 5% 1/6W  
1-249-394-11 s RES, CARBON 12 5% 1/6W  
1-249-395-11 s RES, CARBON 15 5% 1/6W

1-249-396-11 s RES, CARBON 18 5% 1/6W  
1-249-397-11 s RES, CARBON 22 5% 1/6W  
1-249-398-11 s RES, CARBON 27 5% 1/6W  
1-249-399-11 s RES, CARBON 33 5% 1/6W  
1-249-400-11 s RES, CARBON 39 5% 1/6W

1-249-401-11 s RES, CARBON 47 5% 1/6W  
1-249-402-11 s RES, CARBON 56 5% 1/6W  
1-249-403-11 s RES, CARBON 68 5% 1/6W  
1-215-394-00 s RES, METAL 75 1% 1/6W  
1-249-404-11 s RES, CARBON 82 5% 1/6W

1-249-405-11 s RES, CARBON 100 5% 1/6W  
1-249-406-11 s RES, CARBON 120 5% 1/6W  
1-249-407-11 s RES, CARBON 150 5% 1/6W  
1-249-408-11 s RES, CARBON 180 5% 1/6W  
1-249-409-11 s RES, CARBON 220 5% 1/6W

1-249-410-11 s RES, CARBON 270 5% 1/6W  
1-249-411-11 s RES, CARBON 330 5% 1/6W  
1-249-412-11 s RES, CARBON 390 5% 1/6W  
1-249-413-11 s RES, CARBON 470 5% 1/6W  
1-249-414-11 s RES, CARBON 560 5% 1/6W

1-249-415-11 s RES, CARBON 680 5% 1/6W  
1-249-416-11 s RES, CARBON 820 5% 1/6W  
1-249-417-11 s RES, CARBON 1.0k 5% 1/6W  
1-249-418-11 s RES, CARBON 1.2k 5% 1/6W  
1-249-419-11 s RES, CARBON 1.5k 5% 1/6W

1-249-420-11 s RES, CARBON 1.8k 5% 1/6W  
1-249-421-11 s RES, CARBON 2.2k 5% 1/6W  
1-249-422-11 s RES, CARBON 2.7k 5% 1/6W  
1-249-423-11 s RES, CARBON 3.3k 5% 1/6W  
1-249-424-11 s RES, CARBON 3.9k 5% 1/6W

1-249-425-11 s RES, CARBON 4.7k 5% 1/6W  
1-249-426-11 s RES, CARBON 5.6k 5% 1/6W  
1-249-427-11 s RES, CARBON 6.8k 5% 1/6W  
1-249-428-11 s RES, CARBON 8.2k 5% 1/6W  
1-249-429-11 s RES, CARBON 10k 5% 1/6W

1-249-430-11 s RES, CARBON 12k 5% 1/6W  
1-249-431-11 s RES, CARBON 15k 5% 1/6W  
1-249-432-11 s RES, CARBON 18k 5% 1/6W  
1-249-433-11 s RES, CARBON 22k 5% 1/6W  
1-249-434-11 s RES, CARBON 27k 5% 1/6W

1-249-435-11 s RES, CARBON 33k 5% 1/6W  
1-249-436-11 s RES, CARBON 39k 5% 1/6W  
1-249-437-11 s RES, CARBON 47k 5% 1/6W  
1-249-438-11 s RES, CARBON 56k 5% 1/6W  
1-249-439-11 s RES, CARBON 68k 5% 1/6W

Part No. SP Description

1-249-440-11 s RES, CARBON 82k 5% 1/6W  
1-249-441-11 s RES, CARBON 100k 5% 1/6W  
1-215-471-00 s RES, METAL 120k 1% 1/6W  
1-215-473-00 s RES, METAL 150k 1% 1/6W  
1-215-475-00 s RES, METAL 180k 1% 1/6W

1-215-477-00 s RES, METAL 220k 1% 1/6W  
1-215-479-00 s RES, METAL 270k 1% 1/6W  
1-215-481-00 s RES, METAL 330k 1% 1/6W  
1-215-483-00 s RES, METAL 390k 1% 1/6W  
1-215-485-00 s RES, METAL 470k 1% 1/6W

1-215-487-00 s RES, METAL 560k 1% 1/6W  
1-215-489-00 s RES, METAL 680k 1% 1/6W  
1-215-491-00 s RES, METAL 820k 1% 1/6W  
1-215-493-00 s RES, METAL 1.0M 1% 1/6W



Part No. SP Description

. METAL

|              |   |            |      |         |
|--------------|---|------------|------|---------|
| 1-215-373-31 | s | RES, METAL | 10   | 1% 1/6W |
| 1-215-374-00 | s | RES, METAL | 11   | 1% 1/6W |
| 1-215-375-00 | s | RES, METAL | 12   | 1% 1/6W |
| 1-215-376-00 | s | RES, METAL | 13   | 1% 1/6W |
| 1-215-377-00 | s | RES, METAL | 15   | 1% 1/6W |
|              |   |            |      |         |
| 1-215-378-00 | s | RES, METAL | 16   | 1% 1/6W |
| 1-215-379-00 | s | RES, METAL | 18   | 1% 1/6W |
| 1-215-380-00 | s | RES, METAL | 20   | 1% 1/6W |
| 1-215-381-00 | s | RES, METAL | 22   | 1% 1/6W |
| 1-215-382-00 | s | RES, METAL | 24   | 1% 1/6W |
|              |   |            |      |         |
| 1-215-383-00 | s | RES, METAL | 27   | 1% 1/6W |
| 1-215-384-00 | s | RES, METAL | 30   | 1% 1/6W |
| 1-215-385-00 | s | RES, METAL | 33   | 1% 1/6W |
| 1-215-386-00 | s | RES, METAL | 36   | 1% 1/6W |
| 1-215-387-00 | s | RES, METAL | 39   | 1% 1/6W |
|              |   |            |      |         |
| 1-215-388-00 | s | RES, METAL | 43   | 1% 1/6W |
| 1-215-389-00 | s | RES, METAL | 47   | 1% 1/6W |
| 1-215-390-00 | s | RES, METAL | 51   | 1% 1/6W |
| 1-215-391-00 | s | RES, METAL | 56   | 1% 1/6W |
| 1-215-392-00 | s | RES, METAL | 62   | 1% 1/6W |
|              |   |            |      |         |
| 1-215-393-00 | s | RES, METAL | 68   | 1% 1/6W |
| 1-215-394-00 | s | RES, METAL | 75   | 1% 1/6W |
| 1-215-395-00 | s | RES, METAL | 82   | 1% 1/6W |
| 1-215-396-00 | s | RES, METAL | 91   | 1% 1/6W |
| 1-215-397-00 | s | RES, METAL | 100  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-398-00 | s | RES, METAL | 110  | 1% 1/6W |
| 1-215-399-00 | s | RES, METAL | 120  | 1% 1/6W |
| 1-215-400-00 | s | RES, METAL | 130  | 1% 1/6W |
| 1-215-401-00 | s | RES, METAL | 150  | 1% 1/6W |
| 1-215-402-00 | s | RES, METAL | 160  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-403-00 | s | RES, METAL | 180  | 1% 1/6W |
| 1-215-404-00 | s | RES, METAL | 200  | 1% 1/6W |
| 1-215-405-00 | s | RES, METAL | 220  | 1% 1/6W |
| 1-215-406-00 | s | RES, METAL | 240  | 1% 1/6W |
| 1-215-407-00 | s | RES, METAL | 270  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-408-00 | s | RES, METAL | 300  | 1% 1/6W |
| 1-215-409-00 | s | RES, METAL | 330  | 1% 1/6W |
| 1-215-410-00 | s | RES, METAL | 360  | 1% 1/6W |
| 1-215-411-00 | s | RES, METAL | 390  | 1% 1/6W |
| 1-215-412-00 | s | RES, METAL | 430  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-413-00 | s | RES, METAL | 470  | 1% 1/6W |
| 1-215-414-00 | s | RES, METAL | 510  | 1% 1/6W |
| 1-215-415-00 | s | RES, METAL | 560  | 1% 1/6W |
| 1-215-416-00 | s | RES, METAL | 620  | 1% 1/6W |
| 1-215-417-00 | s | RES, METAL | 680  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-418-00 | s | RES, METAL | 750  | 1% 1/6W |
| 1-215-419-00 | s | RES, METAL | 820  | 1% 1/6W |
| 1-215-420-00 | s | RES, METAL | 910  | 1% 1/6W |
| 1-215-421-00 | s | RES, METAL | 1.0k | 1% 1/6W |
| 1-215-422-00 | s | RES, METAL | 1.1k | 1% 1/6W |
|              |   |            |      |         |
| 1-215-423-00 | s | RES, METAL | 1.2k | 1% 1/6W |
| 1-215-424-00 | s | RES, METAL | 1.3k | 1% 1/6W |
| 1-215-425-00 | s | RES, METAL | 1.5k | 1% 1/6W |
| 1-215-426-00 | s | RES, METAL | 1.6k | 1% 1/6W |
| 1-215-427-00 | s | RES, METAL | 1.8k | 1% 1/6W |
|              |   |            |      |         |
| 1-215-428-00 | s | RES, METAL | 2.0k | 1% 1/6W |
| 1-215-429-00 | s | RES, METAL | 2.2k | 1% 1/6W |
| 1-215-430-00 | s | RES, METAL | 2.4k | 1% 1/6W |
| 1-215-431-00 | s | RES, METAL | 2.7k | 1% 1/6W |
| 1-215-432-00 | s | RES, METAL | 3.0k | 1% 1/6W |

Part No. SP Description

|              |   |            |      |         |
|--------------|---|------------|------|---------|
| 1-215-433-00 | s | RES, METAL | 3.3k | 1% 1/6W |
| 1-215-434-00 | s | RES, METAL | 3.6k | 1% 1/6W |
| 1-215-435-00 | s | RES, METAL | 3.9k | 1% 1/6W |
| 1-215-436-00 | s | RES, METAL | 4.3k | 1% 1/6W |
| 1-215-437-00 | s | RES, METAL | 4.7k | 1% 1/6W |
|              |   |            |      |         |
| 1-215-438-00 | s | RES, METAL | 5.1k | 1% 1/6W |
| 1-215-439-00 | s | RES, METAL | 5.6k | 1% 1/6W |
| 1-215-440-00 | s | RES, METAL | 6.2k | 1% 1/6W |
| 1-215-441-00 | s | RES, METAL | 6.8k | 1% 1/6W |
| 1-215-442-00 | s | RES, METAL | 7.5k | 1% 1/6W |
|              |   |            |      |         |
| 1-215-443-00 | s | RES, METAL | 8.2k | 1% 1/6W |
| 1-215-444-00 | s | RES, METAL | 9.1k | 1% 1/6W |
| 1-215-445-00 | s | RES, METAL | 10k  | 1% 1/6W |
| 1-215-446-00 | s | RES, METAL | 11k  | 1% 1/6W |
| 1-215-447-00 | s | RES, METAL | 12k  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-448-00 | s | RES, METAL | 13k  | 1% 1/6W |
| 1-215-449-00 | s | RES, METAL | 15k  | 1% 1/6W |
| 1-215-450-00 | s | RES, METAL | 16k  | 1% 1/6W |
| 1-215-451-00 | s | RES, METAL | 18k  | 1% 1/6W |
| 1-215-452-00 | s | RES, METAL | 20k  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-453-00 | s | RES, METAL | 22k  | 1% 1/6W |
| 1-215-454-00 | s | RES, METAL | 24k  | 1% 1/6W |
| 1-215-455-00 | s | RES, METAL | 27k  | 1% 1/6W |
| 1-215-456-00 | s | RES, METAL | 30k  | 1% 1/6W |
| 1-215-457-00 | s | RES, METAL | 33k  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-458-00 | s | RES, METAL | 36k  | 1% 1/6W |
| 1-215-459-00 | s | RES, METAL | 39k  | 1% 1/6W |
| 1-215-460-00 | s | RES, METAL | 43k  | 1% 1/6W |
| 1-215-461-00 | s | RES, METAL | 47k  | 1% 1/6W |
| 1-215-462-00 | s | RES, METAL | 51k  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-463-00 | s | RES, METAL | 56k  | 1% 1/6W |
| 1-215-464-00 | s | RES, METAL | 62k  | 1% 1/6W |
| 1-215-465-00 | s | RES, METAL | 68k  | 1% 1/6W |
| 1-215-466-00 | s | RES, METAL | 75k  | 1% 1/6W |
| 1-215-467-00 | s | RES, METAL | 82k  | 1% 1/6W |
|              |   |            |      |         |
| 1-215-468-00 | s | RES, METAL | 91k  | 1% 1/6W |
| 1-215-469-00 | s | RES, METAL | 100k | 1% 1/6W |
| 1-215-470-00 | s | RES, METAL | 110k | 1% 1/6W |
| 1-215-471-00 | s | RES, METAL | 120k | 1% 1/6W |
| 1-215-472-00 | s | RES, METAL | 130k | 1% 1/6W |
|              |   |            |      |         |
| 1-215-473-00 | s | RES, METAL | 150k | 1% 1/6W |
| 1-215-474-00 | s | RES, METAL | 160k | 1% 1/6W |
| 1-215-475-00 | s | RES, METAL | 180k | 1% 1/6W |
| 1-215-476-00 | s | RES, METAL | 200k | 1% 1/6W |
| 1-215-477-00 | s | RES, METAL | 220k | 1% 1/6W |
|              |   |            |      |         |
| 1-215-478-00 | s | RES, METAL | 240k | 1% 1/6W |
| 1-215-479-00 | s | RES, METAL | 270k | 1% 1/6W |
| 1-215-480-00 | s | RES, METAL | 300k | 1% 1/6W |
| 1-215-481-00 | s | RES, METAL | 330k | 1% 1/6W |
| 1-215-482-00 | s | RES, METAL | 360k | 1% 1/6W |
|              |   |            |      |         |
| 1-215-483-00 | s | RES, METAL | 390k | 1% 1/6W |
| 1-215-484-00 | s | RES, METAL | 430k | 1% 1/6W |
| 1-215-485-00 | s | RES, METAL | 470k | 1% 1/6W |
| 1-215-486-00 | s | RES, METAL | 510k | 1% 1/6W |
| 1-215-487-00 | s | RES, METAL | 560k | 1% 1/6W |
|              |   |            |      |         |
| 1-215-488-00 | s | RES, METAL | 620k | 1% 1/6W |
| 1-215-489-00 | s | RES, METAL | 680k | 1% 1/6W |
| 1-215-490-00 | s | RES, METAL | 750k | 1% 1/6W |
| 1-215-491-00 | s | RES, METAL | 820k | 1% 1/6W |
| 1-215-492-00 | s | RES, METAL | 910k | 1% 1/6W |
|              |   |            |      |         |
| 1-215-493-00 | s | RES, METAL | 1.0M | 1% 1/6W |



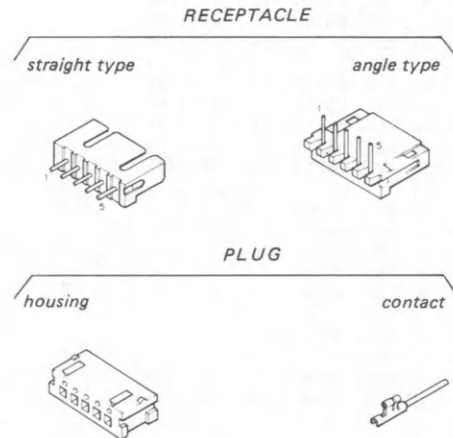
Part No. SP Description

CONNECTOR

|              |   |            |                          |
|--------------|---|------------|--------------------------|
| 1-564-001-11 | o | RECEPTACLE | 2P MALE (STRAIGHT TYPE)  |
| 1-564-012-11 | o | RECEPTACLE | 2P MALE (ANGLE TYPE)     |
| 1-562-147-11 | o | HOUSING    | 2P                       |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-002-11 | o | RECEPTACLE | 3P MALE (STRAIGHT TYPE)  |
| 1-564-013-11 | o | RECEPTACLE | 3P MALE (ANGLE TYPE)     |
| 1-562-148-11 | o | HOUSING    | 3P                       |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-003-11 | o | RECEPTACLE | 4P MALE (STRAIGHT TYPE)  |
| 1-564-014-11 | o | RECEPTACLE | 4P MALE (ANGLE TYPE)     |
| 1-562-149-11 | o | HOUSING    | 4P                       |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-004-11 | o | RECEPTACLE | 5P MALE (STRAIGHT TYPE)  |
| 1-564-015-11 | o | RECEPTACLE | 5P MALE (ANGLE TYPE)     |
| 1-562-150-11 | o | HOUSING    | 5P                       |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-005-11 | o | RECEPTACLE | 6P MALE (STRAIGHT TYPE)  |
| 1-564-016-11 | o | RECEPTACLE | 6P MALE (ANGLE TYPE)     |
| 1-562-151-11 | o | HOUSING    | 6P                       |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-006-11 | o | RECEPTACLE | 7P MALE (STRAIGHT TYPE)  |
| 1-564-017-11 | o | RECEPTACLE | 7P MALE (ANGLE TYPE)     |
| 1-562-152-11 | o | HOUSING    | 7P                       |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-007-11 | o | RECEPTACLE | 8P MALE (STRAIGHT TYPE)  |
| 1-564-018-11 | o | RECEPTACLE | 8P MALE (ANGLE TYPE)     |
| 1-562-153-11 | o | HOUSING    | 8P                       |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-008-41 | o | RECEPTACLE | 9P MALE (STRAIGHT TYPE)  |
| 1-564-019-11 | o | RECEPTACLE | 9P MALE (ANGLE TYPE)     |
| 1-562-154-11 | o | HOUSING    | 9P                       |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-009-11 | o | RECEPTACLE | 10P MALE (STRAIGHT TYPE) |
| 1-564-020-11 | o | RECEPTACLE | 10P MALE (ANGLE TYPE)    |
| 1-562-155-11 | o | HOUSING    | 10P                      |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-010-21 | o | RECEPTACLE | 11P MALE (STRAIGHT TYPE) |
| 1-564-021-11 | o | RECEPTACLE | 11P MALE (ANGLE TYPE)    |
| 1-562-156-11 | o | HOUSING    | 11P                      |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-011-11 | o | RECEPTACLE | 12P MALE (STRAIGHT TYPE) |
| 1-564-022-11 | o | RECEPTACLE | 12P MALE (ANGLE TYPE)    |
| 1-562-157-11 | o | HOUSING    | 12P                      |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |

Part No. SP Description

|              |   |            |                          |
|--------------|---|------------|--------------------------|
| 1-564-683-11 | o | RECEPTACLE | 13P MALE (STRAIGHT TYPE) |
| 1-564-743-11 | o | RECEPTACLE | 13P MALE (ANGLE TYPE)    |
| 1-562-627-11 | o | HOUSING    | 13P                      |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-069-11 | o | RECEPTACLE | 14P MALE (STRAIGHT TYPE) |
| 1-564-630-11 | o | RECEPTACLE | 14P MALE (ANGLE TYPE)    |
| 1-562-185-11 | o | HOUSING    | 14P                      |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |
|              |   |            |                          |
| 1-564-855-11 | o | RECEPTACLE | 15P MALE (STRAIGHT TYPE) |
| 1-564-877-11 | o | RECEPTACLE | 15P MALE (ANGLE TYPE)    |
| 1-562-958-11 | o | HOUSING    | 15P                      |
| 1-564-026-21 | o | CONTACT    | AWG24-30                 |
| 1-564-681-21 | o | CONTACT    | AWG32                    |





Ref No. Parts No. SP Description

AC-78 BOARD

1-622-704-11 o PRINTED CIRCUIT BOARD, AC-78

△ 1-533-189-11 o HOLDER, FUSE  
 1-533-189-11 o HOLDER, FUSE

△ C1 1-136-185-00 s FILM 0.22 20% 250V  
 C2 1-161-741-00 s CERAMIC 0.001 10% 400V  
 C3 1-161-741-00 s CERAMIC 0.001 10% 400V  
 C4 1-161-741-00 s CERAMIC 0.001 10% 400V

△ CN950 1-564-241-00 o PIN, 4P  
 1-562-285-11 o HOUSING, 4P  
 CN951 1-564-243-00 o PIN, 6P  
 1-562-287-11 o HOUSING, 6P  
 CN952 1-564-242-00 o PIN, 5P  
 1-562-286-11 o HOUSING, 5P

△ R1 1-214-937-00 s CARBON 1M 5% 1/2W

AU-83 BOARD

This board includes the DUS-71 board.

A-6713-284-A o MOUNTED CIRCUIT BOARD, AU-83

1-564-548-11 o PIN, BOARD TO BOARD 5P  
(AU-83 to DUS-71)

C1 1-123-332-00 s ELECT 47 20% 16V  
 C2 1-109-681-61 s MICA 220PF 5% 500V  
 C3 1-162-289-31 s CERAMIC 390PF 10% 50V  
 C5 1-131-351-00 s TANTALUM 4.7 10% 25V  
 C6 1-131-358-00 s TANTALUM 6.8 10% 25V

C10 1-162-286-31 s CERAMIC 220PF 10% 50V  
 C11 1-162-207-31 s CERAMIC 22PF 5% 50V  
 C14 1-131-348-00 s TANTALUM 1.5 20% 25V  
 C26 1-131-373-00 s TANTALUM 22 10% 16V  
 C32 1-131-342-00 s TANTALUM 0.15 10% 35V

C37 1-162-207-31 s CERAMIC 22PF 5% 50V  
 C46 1-124-927-11 s ELECT 4.7 20% 50V  
 C48 1-131-351-00 s TANTALUM 4.7 10% 25V  
 C52 1-162-207-31 s CERAMIC 22PF 5% 50V  
 C55 1-131-365-00 s TANTALUM 10 10% 16V

C55 1-131-372-00 s TANTALUM 15 10% 16V  
 C57 1-162-294-31 s CERAMIC 0.001 10% 50V  
 C60 1-131-373-00 s TANTALUM 22 10% 16V  
 C61 1-162-207-31 s CERAMIC 22PF 5% 50V  
 C64 1-124-927-11 s ELECT 4.7 20% 50V

Ref No. Parts No. SP Description

C65 1-131-349-00 s TANTALUM 2.2 10% 35V  
 C66 1-131-373-00 s TANTALUM 22 10% 16V  
 C80 1-124-445-00 s ELECT 100 20% 16V  
 C81 1-124-445-00 s ELECT 100 20% 16V  
 C82 1-124-445-00 s ELECT 100 20% 16V

C83 1-124-445-00 s ELECT 100 20% 16V  
 C100 1-124-445-00 s ELECT 100 20% 16V  
 C101 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C102 1-124-445-00 s ELECT 100 20% 16V  
 C103 1-161-379-00 s CERAMIC 0.01 30% 16V

CN4 1-566-258-11 o BOARD TO BOARD 12P (AU-83 to HN-77)  
 CN5 1-566-258-11 o BOARD TO BOARD 12P (AU-83 to HN-77)  
 CN6 1-566-258-11 o BOARD TO BOARD 12P (AU-83 to HN-77)

CP1 1-236-010-11 s FILTER, LOW PASS  
 CP2 1-236-010-11 s FILTER, LOW PASS

D1 8-719-901-33 s 1SS133  
 D2 8-719-901-33 s 1SS133  
 D3 8-719-109-91 s RD6.2ES-B  
 D4 8-719-901-33 s 1SS133  
 D5 8-719-109-91 s RD6.2ES-B

D6 8-719-901-33 s 1SS133  
 D7 8-719-901-33 s 1SS133  
 D8 8-719-200-02 s 10E-2  
 D9 8-719-200-02 s 10E-2  
 D10 8-719-901-33 s 1SS133

D11 8-719-901-33 s 1SS133  
 D14 8-719-901-33 s 1SS133  
 D15 8-719-901-33 s 1SS133  
 D16 8-719-901-33 s 1SS133  
 D19 8-719-901-33 s 1SS133

IC1 8-759-700-04 s NJM2043D-D(JRC)  
 IC2 8-759-745-60 s NJM4560D(JRC)  
 IC3 8-749-900-86 s BX-1469L(SONY)  
 IC4 8-759-145-58 s UPC4558C(JRC)  
 IC5 8-759-145-58 s UPC4558C(JRC)

IC6 8-759-745-60 s NJM4560D(JRC)  
 IC7 8-720-002-92 s TX-429M(SONY)  
 IC8 8-720-002-92 s TX-429M(SONY)  
 IC11 8-759-705-62 s NJM4562D-D(JRC)

LV1 1-407-305-00 s MICRO 22mH  
 LV2 1-407-307-00 s MICRO 35mH  
 LV3 1-407-305-00 s MICRO 22mH  
 LV4 1-407-305-00 s MICRO 22mH  
 LV5 1-459-434-00 s VAR 22mH

Q1 8-729-178-55 s 2SC2785E  
 Q2 8-729-178-55 s 2SC2785E  
 Q3 8-729-117-54 s 2SA1175  
 Q4 8-729-201-05 s 2SC2878-B  
 Q5 8-729-178-54 s 2SC2785

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

Q6 8-729-105-72 s 2SK523-L1  
 Q7 8-729-178-54 s 2SC2785  
 Q8 8-729-117-54 s 2SA1175  
 Q9 8-729-900-65 s DTA144ES  
 Q10 8-729-178-54 s 2SC2785

Q11 8-729-178-54 s 2SC2785  
 Q14 8-729-117-54 s 2SA1175  
 Q15 8-729-178-54 s 2SC2785  
 Q16 8-729-178-54 s 2SC2785  
 Q17 8-729-900-89 s DTC144ES

Q18 8-729-178-54 s 2SC2785  
 Q19 8-729-201-05 s 2SC2878-B  
 Q20 8-729-178-54 s 2SC2785  
 Q21 8-729-178-54 s 2SC2785  
 Q22 8-729-178-54 s 2SC2785

Q23 8-729-178-54 s 2SC2785  
 Q24 8-729-117-54 s 2SA1175  
 Q25 8-729-201-05 s 2SC2878-B  
 Q26 8-729-900-89 s DTC144ES  
 Q27 8-729-900-65 s DTA144ES

Q28 8-729-900-89 s DTC144ES  
 Q29 8-729-201-05 s 2SC2878-B  
 Q30 8-729-117-54 s 2SA1175  
 Q31 8-729-178-54 s 2SC2785  
 Q32 8-729-900-65 s DTA144ES  
 Q33 8-729-900-89 s DTC144ES

R12 1-247-883-00 s CARBON 150k 5% 1/6W  
 R17 1-249-404-00 s CARBON 82 5% 1/6W  
 R18 1-247-883-00 s CARBON 150k 5% 1/6W  
 R22 1-247-887-00 s CARBON 220k 5% 1/6W  
 R57 1-247-883-00 s CARBON 150k 5% 1/6W

R65 1-247-887-00 s CARBON 220k 5% 1/6W  
 R84 1-247-883-00 s CARBON 150k 5% 1/6W  
 R86 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R94 1-247-883-00 s CARBON 150k 5% 1/6W  
 R109 1-247-895-00 s CARBON 470k 5% 1/6W

R115 1-247-887-00 s CARBON 220k 5% 1/6W  
 R138 1-247-885-00 s CARBON 180k 5% 1/6W  
 R140 1-247-885-00 s CARBON 180k 5% 1/6W  
 R142 1-247-883-00 s CARBON 150k 5% 1/6W  
 R143 1-247-883-00 s CARBON 150k 5% 1/6W

RV1 1-228-993-00 s VAR, CARBON 4.7k  
 RV2 1-228-993-00 s VAR, CARBON 4.7k  
 RV3 1-228-998-00 s VAR, CARBON 220k  
 RV4 1-228-993-00 s VAR, CARBON 4.7k  
 RV5 1-228-996-00 s VAR, CARBON 47k

RV6 1-230-720-11 s VAR, CARBON 4.7k  
 RV7 1-228-996-00 s VAR, CARBON 47k  
 RV8 1-230-496-11 s VAR, CARBON 10k  
 RV9 1-230-500-11 s VAR, CARBON 220k  
 RV10 1-230-720-11 s VAR, CARBON 4.7k

RV11 1-230-720-11 s VAR, CARBON 4.7k  
 RV12 1-230-719-11 s VAR, CARBON 2.2k

T1 1-427-284-00 s OUTPUT

Ref No. Parts No. SP Description

AU-84 BOARD

This board includes the DUS-71 and HN-77 boards.

A-6713-285-A o MOUNTED CIRCUIT BOARD, AU-84

1-564-548-11 o PIN, BOARD TO BOARD 5P  
 (AU-84 to DUS-71)

C1 1-123-332-00 s ELECT 47 20% 16V  
 C2 1-109-681-61 s MICA 220PF 5% 500V  
 C3 1-162-289-31 s CERAMIC 390PF 10% 50V  
 C5 1-131-351-00 s TANTALUM 4.7 10% 25V  
 C6 1-131-358-00 s TANTALUM 6.8 10% 25V

C10 1-162-286-31 s CERAMIC 220PF 10% 50V  
 C11 1-162-207-31 s CERAMIC 22PF 5% 50V  
 C14 1-131-348-00 s TANTALUM 1.5 20% 25V  
 C26 1-131-373-00 s TANTALUM 22 10% 16V  
 C32 1-131-342-00 s TANTALUM 0.15 10% 35V

C34 1-124-445-00 s ELECT 100 20% 16V  
 C37 1-162-207-31 s CERAMIC 22PF 5% 50V  
 C46 1-124-927-11 s ELECT 4.7 20% 50V  
 C48 1-131-351-00 s TANTALUM 4.7 10% 25V  
 C52 1-162-207-31 s CERAMIC 22PF 5% 50V

C55 1-131-365-00 s TANTALUM 10 10% 16V  
 C57 1-162-294-31 s CERAMIC 0.001 10% 50V  
 C60 1-131-373-00 s TANTALUM 22 10% 16V  
 C61 1-162-207-31 s CERAMIC 22PF 5% 50V  
 C64 1-124-927-11 s ELECT 4.7 20% 50V

C65 1-131-361-00 s TANTALUM 2.2 10% 20V  
 C66 1-131-373-00 s TANTALUM 22 10% 16V  
 C73 1-126-103-11 s ELECT 470 20% 16V  
 C74 1-126-103-11 s ELECT 470 20% 16V  
 C75 1-124-445-00 s ELECT 100 20% 16V

C76 1-124-445-00 s ELECT 100 20% 16V  
 C77 1-124-445-00 s ELECT 100 20% 16V  
 C78 1-124-445-00 s ELECT 100 20% 16V

CN4 1-563-685-11 o BOARD TO BOARD 12P (HN-77 to AU-83)  
 CN4 1-506-592-11 o PIN, BOARD TO BOARD 4P  
 (AU-84 to HN-77)

CN4 1-564-549-11 o PIN, BOARD TO BOARD 10P  
 (AU-84 to HN-77)

CN5 1-563-685-11 o BOARD TO BOARD 12P (HN-77 to AU-83)  
 CN5 1-564-549-11 o PIN, BOARD TO BOARD 10P  
 (AU-84 to HN-77)

CN6 1-563-685-11 o BOARD TO BOARD 12P (HN-77 to AU-83)  
 CN6 1-506-592-11 o PIN, BOARD TO BOARD 4P  
 (AU-84 to HN-77)

CN6 1-564-549-11 o PIN, BOARD TO BOARD 10P  
 (AU-84 to HN-77)

CN107 1-506-747-21 o PIN, DIN(DIP) 64P

CP1 1-236-010-11 s FILTER, LOW PASS  
 CP2 1-236-010-11 s FILTER, LOW PASS

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

D1 8-719-901-33 s ISS133  
 D2 8-719-901-33 s ISS133  
 D3 8-719-109-91 s RD6.2ES-B  
 D4 8-719-901-33 s ISS133  
 D5 8-719-109-91 s RD6.2ES-B

D6 8-719-901-33 s ISS133  
 D7 8-719-901-33 s ISS133  
 D8 8-719-200-02 s 10E-2  
 D9 8-719-200-02 s 10E-2  
 D10 8-719-901-33 s ISS133

D11 8-719-901-33 s ISS133  
 D12 8-719-901-33 s ISS133  
 D13 8-719-901-33 s ISS133  
 D15 8-719-109-87 s RD5.6ES-B  
 D16 8-719-110-05 s RD8.2ES-B

D17 8-719-109-58 s RD2.7ES-B  
 D18 8-719-901-33 s ISS133  
 D19 8-719-901-33 s ISS133

IC1 8-759-700-04 s NJM2043D-D(JRC)  
 IC2 8-759-745-60 s NJM4560D(JRC)  
 IC3 8-749-900-86 s BX-1469L(SONY)  
 IC4 8-759-145-58 s UPC4558C(JRC)  
 IC5 8-759-145-58 s UPC4558C(JRC)

IC6 8-759-745-60 s NJM4560D(JRC)  
 IC7 8-720-002-92 s TX-429M(SONY)  
 IC8 8-720-002-92 s TX-429M(SONY)  
 IC9 8-759-708-05 s NJM78L05A(JRC)  
 IC10 8-759-700-65 s NJM79L05A(JRC)  
 IC11 8-759-705-62 s NJM4562D-D(JRC)

LV1 1-407-305-00 s MICRO 22mH  
 LV2 1-407-307-00 s MICRO 35mH  
 LV3 1-407-305-00 s MICRO 22mH  
 LV4 1-407-305-00 s MICRO 22mH  
 LV5 1-459-434-00 s VAR 22mH

Q1 8-729-178-55 s 2SC2785E  
 Q2 8-729-178-55 s 2SC2785E  
 Q3 8-729-117-54 s 2SA1175  
 Q4 8-729-201-05 s 2SC2878-B  
 Q5 8-729-178-54 s 2SC2785

Q6 8-729-105-72 s 2SK523-L1  
 Q7 8-729-178-54 s 2SC2785  
 Q8 8-729-117-54 s 2SA1175  
 Q9 8-729-900-65 s DTA144ES  
 Q10 8-729-178-54 s 2SC2785

Q11 8-729-178-54 s 2SC2785  
 Q14 8-729-117-54 s 2SA1175  
 Q15 8-729-178-54 s 2SC2785  
 Q16 8-729-178-54 s 2SC2785  
 Q17 8-729-900-89 s DTC144ES

Q18 8-729-178-54 s 2SC2785  
 Q19 8-729-201-05 s 2SC2878-B  
 Q20 8-729-178-54 s 2SC2785  
 Q21 8-729-178-54 s 2SC2785  
 Q22 8-729-178-54 s 2SC2785

Ref No. Parts No. SP Description

Q23 8-729-178-54 s 2SC2785  
 Q24 8-729-117-54 s 2SA1175  
 Q25 8-729-201-05 s 2SC2878-B  
 Q29 8-729-201-05 s 2SC2878-B  
 Q30 8-729-117-54 s 2SA1175

Q31 8-729-178-54 s 2SC2785  
 Q32 8-729-113-32 s 2SB733  
 Q33 8-729-178-54 s 2SC2785  
 Q34 8-729-117-54 s 2SA1175  
 Q35 8-729-177-32 s 2SD773

Q36 8-729-900-65 s DTA144ES  
 Q37 8-729-900-89 s DTC144ES  
 Q38 8-729-900-65 s DTA144ES  
 Q39 8-729-900-89 s DTC144ES

R12 1-247-883-00 s CARBON 150k 5% 1/6W  
 R17 1-249-404-00 s CARBON 82 5% 1/6W  
 R18 1-247-883-00 s CARBON 150k 5% 1/6W  
 R22 1-247-887-00 s CARBON 220k 5% 1/6W  
 R57 1-247-883-00 s CARBON 150k 5% 1/6W

R65 1-247-887-00 s CARBON 220k 5% 1/6W  
 R84 1-247-883-00 s CARBON 150k 5% 1/6W  
 R86 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R94 1-247-883-00 s CARBON 150k 5% 1/6W  
 R109 1-247-895-00 s CARBON 470k 5% 1/6W

R115 1-247-887-00 s CARBON 220k 5% 1/6W  
 R153 1-247-885-00 s CARBON 180k 5% 1/6W  
 R156 1-247-883-00 s CARBON 150k 5% 1/6W  
 R157 1-247-883-00 s CARBON 150k 5% 1/6W  
 R158 1-247-885-00 s CARBON 180k 5% 1/6W

RV1 1-228-993-00 s VAR, CARBON 4.7k  
 RV2 1-228-993-00 s VAR, CARBON 4.7k  
 RV3 1-228-998-00 s VAR, CARBON 220k  
 RV4 1-228-993-00 s VAR, CARBON 4.7k  
 RV5 1-228-996-00 s VAR, CARBON 47k

RV6 1-230-720-11 s VAR, CARBON 4.7k  
 RV7 1-228-996-00 s VAR, CARBON 47k  
 RV8 1-230-496-11 s VAR, CARBON 10k  
 RV9 1-230-500-11 s VAR, CARBON 220k  
 RV10 1-230-720-11 s VAR, CARBON 4.7k

RV11 1-230-720-11 s VAR, CARBON 4.7k  
 RV12 1-230-719-11 s VAR, CARBON 2.2k

T1 1-427-284-00 s TRANSFORMER, OUTPUT

AU-85 BOARD

A-6713-286-A o MOUNTED CIRCUIT BOARD, AU-85

C1 1-131-360-91 s TANTALUM 15 10% 25V  
 C2 1-131-351-00 s TANTALUM 4.7 10% 25V  
 C4 1-131-360-91 s TANTALUM 15 10% 25V  
 C5 1-131-351-00 s TANTALUM 4.7 10% 25V  
 C7 1-131-343-00 s TANTALUM 0.22 10% 35V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description           |
|---------|--------------|----|-----------------------|
| C9      | 1-131-372-00 | s  | TANTALUM 15 10% 16V   |
| C10     | 1-131-351-00 | s  | TANTALUM 4.7 10% 25V  |
| C15     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C26     | 1-131-365-00 | s  | TANTALUM 10 10% 16V   |
| C27     | 1-131-372-00 | s  | TANTALUM 15 10% 16V   |
| C28     | 1-131-372-00 | s  | TANTALUM 15 10% 16V   |
| C29     | 1-131-365-00 | s  | TANTALUM 10 10% 16V   |
| C31     | 1-124-927-11 | s  | ELECT 4.7 20% 50V     |
| C33     | 1-131-372-00 | s  | TANTALUM 15 10% 16V   |
| C34     | 1-131-351-00 | s  | TANTALUM 4.7 10% 25V  |
| C39     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C49     | 1-131-365-00 | s  | TANTALUM 10 10% 16V   |
| C50     | 1-131-372-00 | s  | TANTALUM 15 10% 16V   |
| C51     | 1-131-372-00 | s  | TANTALUM 15 10% 16V   |
| C52     | 1-131-365-00 | s  | TANTALUM 10 10% 16V   |
| C53     | 1-131-351-00 | s  | TANTALUM 4.7 10% 25V  |
| C54     | 1-131-351-00 | s  | TANTALUM 4.7 10% 25V  |
| C57     | 1-124-927-11 | s  | ELECT 4.7 20% 50V     |
| C60     | 1-131-343-00 | s  | TANTALUM 0.22 10% 35V |
| C63     | 1-131-343-00 | s  | TANTALUM 0.22 10% 35V |
| C68     | 1-124-927-11 | s  | ELECT 4.7 20% 50V     |
| C101    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C103    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C104    | 1-162-285-31 | s  | CERAMIC 180PF 10% 50V |
| C110    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C111    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C112    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C113    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C114    | 1-129-718-00 | s  | FILM 0.022 10% 630V   |
| C115    | 1-131-356-00 | s  | TANTALUM 3.3 10% 25V  |
| C116    | 1-131-373-00 | s  | TANTALUM 22 10% 16V   |
| C119    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C121    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C122    | 1-162-285-31 | s  | CERAMIC 180PF 10% 50V |
| C128    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C129    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C130    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C131    | 1-129-718-00 | s  | FILM 0.022 10% 630V   |
| C132    | 1-131-356-00 | s  | TANTALUM 3.3 10% 25V  |
| C133    | 1-131-373-00 | s  | TANTALUM 22 10% 16V   |
| C136    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C138    | 1-162-285-31 | s  | CERAMIC 180PF 10% 50V |
| C139    | 1-131-352-00 | s  | TANTALUM 6.8 10% 35V  |
| C140    | 1-162-215-31 | s  | CERAMIC 47PF 5% 50V   |
| C143    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C144    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C145    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C146    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C149    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C151    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C152    | 1-162-285-31 | s  | CERAMIC 180PF 10% 50V |
| C153    | 1-131-352-00 | s  | TANTALUM 6.8 10% 35V  |
| C154    | 1-162-215-31 | s  | CERAMIC 47PF 5% 50V   |
| C157    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C158    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |

| Ref No. | Parts No.    | SP | Description           |
|---------|--------------|----|-----------------------|
| C159    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C162    | 1-109-681-61 | s  | MICA 220PF 5% 500V    |
| C163    | 1-109-681-61 | s  | MICA 220PF 5% 500V    |
| C164    | 1-162-286-31 | s  | CERAMIC 220PF 10% 50V |
| C165    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C166    | 1-162-215-31 | s  | CERAMIC 47PF 5% 50V   |
| C167    | 1-162-215-31 | s  | CERAMIC 47PF 5% 50V   |
| C168    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C169    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C200    | 1-126-103-11 | s  | ELECT 470 20% 16V     |
| C201    | 1-126-103-11 | s  | ELECT 470 20% 16V     |

CN109 1-506-747-21 o PIN, DIN(DIP) 64P

|      |              |   |           |
|------|--------------|---|-----------|
| D1   | 8-719-901-33 | s | 1SS133    |
| D2   | 8-719-901-33 | s | 1SS133    |
| D3   | 8-719-901-33 | s | 1SS133    |
| D4   | 8-719-901-33 | s | 1SS133    |
| D5   | 8-719-901-33 | s | 1SS133    |
| D6   | 8-719-109-91 | s | RD6.2ES-B |
| D7   | 8-719-109-91 | s | RD6.2ES-B |
| D8   | 8-719-901-33 | s | 1SS133    |
| D9   | 8-719-901-33 | s | 1SS133    |
| D10  | 8-719-901-33 | s | 1SS133    |
| D11  | 8-719-901-33 | s | 1SS133    |
| D12  | 8-719-901-33 | s | 1SS133    |
| D13  | 8-719-901-33 | s | 1SS133    |
| D14  | 8-719-901-33 | s | 1SS133    |
| D101 | 8-719-901-33 | s | 1SS133    |
| D102 | 8-719-901-33 | s | 1SS133    |

|       |              |   |                     |
|-------|--------------|---|---------------------|
| IC1   | 8-759-205-76 | s | TC504013BP(TOSHIBA) |
| IC2   | 8-759-132-40 | s | UPC324C(NEC)        |
| IC3   | 8-759-132-40 | s | UPC324C(NEC)        |
| IC4   | 8-759-969-13 | s | SN16913P(TI)        |
| IC5   | 8-759-969-13 | s | SN16913P(TI)        |
| IC6   | 8-759-969-13 | s | SN16913P(TI)        |
| IC7   | 8-759-969-13 | s | SN16913P(TI)        |
| IC8   | 8-759-132-40 | s | UPC324C(NEC)        |
| IC101 | 8-759-745-60 | s | NJM4560D(JRC)       |
| IC102 | 8-759-745-60 | s | NJM4560D(JRC)       |

L1 1-459-155-00 s (WITH CORE) 45

|     |              |   |             |
|-----|--------------|---|-------------|
| LV1 | 1-407-306-00 | s | MICRO 28mH  |
| LV2 | 1-407-306-00 | s | MICRO 28mH  |
| LV3 | 1-407-306-00 | s | MICRO 28mH  |
| LV4 | 1-407-300-00 | s | MICRO 7.1mH |
| LV5 | 1-407-306-00 | s | MICRO 28mH  |
| LV6 | 1-407-300-00 | s | MICRO 7.1mH |

|    |              |   |          |
|----|--------------|---|----------|
| Q1 | 8-729-900-89 | s | DTC144ES |
| Q2 | 8-729-900-89 | s | DTC144ES |
| Q3 | 8-729-900-89 | s | DTC144ES |
| Q4 | 8-729-900-89 | s | DTC144ES |
| Q5 | 8-729-117-54 | s | 2SA1175  |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

Q6 8-729-117-54 s 2SA1175  
 Q7 8-729-900-89 s DTC144ES  
 Q8 8-729-117-54 s 2SA1175  
 Q9 8-729-117-54 s 2SA1175  
 Q10 8-729-201-05 s 2SC2878-B

Q11 8-729-178-54 s 2SC2785  
 Q12 8-729-201-05 s 2SC2878-B  
 Q13 8-729-178-54 s 2SC2785  
 Q14 8-729-900-89 s DTC144ES  
 Q101 8-729-178-54 s 2SC2785

Q105 8-729-117-54 s 2SA1175  
 Q106 8-729-178-54 s 2SC2785  
 Q107 8-729-905-53 s 2SD1055-R  
 Q108 8-729-982-22 s 2SB822  
 Q109 8-729-117-54 s 2SA1175

Q110 8-729-201-05 s 2SC2878-B  
 Q111 8-729-201-05 s 2SC2878-B  
 Q112 8-729-178-54 s 2SC2785  
 Q116 8-729-117-54 s 2SA1175  
 Q117 8-729-178-54 s 2SC2785

Q118 8-729-905-54 s 2SD1055-R  
 Q119 8-729-982-22 s 2SB822  
 Q120 8-729-117-54 s 2SA1175  
 Q121 8-729-201-05 s 2SC2878-B  
 Q122 8-729-201-05 s 2SC2878-B

Q123 8-729-178-54 s 2SC2785  
 Q124 8-729-117-54 s 2SA1175  
 Q125 8-729-201-05 s 2SC2878-B  
 Q126 8-729-201-05 s 2SC2878-B  
 Q127 8-729-178-54 s 2SC2785

Q128 8-729-117-54 s 2SA1175  
 Q129 8-729-178-54 s 2SC2785  
 Q130 8-729-905-53 s 2SD1055-R  
 Q131 8-729-982-22 s 2SB822  
 Q132 8-729-178-54 s 2SC2785

Q133 8-729-117-54 s 2SA1175  
 Q134 8-729-201-05 s 2SC2878-B  
 Q135 8-729-201-05 s 2SC2878-B  
 Q136 8-729-178-54 s 2SC2785  
 Q137 8-729-117-54 s 2SA1175

Q138 8-729-178-54 s 2SC2785  
 Q139 8-729-905-53 s 2SD1055-R  
 Q140 8-729-982-22 s 2SB822  
 Q144 8-729-900-74 s DTC143TS  
 Q145 8-729-900-74 s DTC143TS

Q146 8-729-178-54 s 2SC2785

R6 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R12 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R22 1-247-885-00 s CARBON 180k 5% 1/6W  
 R24 1-247-895-00 s CARBON 470k 5% 1/6W  
 R25 1-247-849-00 s CARBON 5.6k 5% 1/6W

R26 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R28 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R31 1-247-881-00 s CARBON 120k 5% 1/6W  
 R43 1-247-885-00 s CARBON 180k 5% 1/6W  
 R45 1-247-895-00 s CARBON 470k 5% 1/6W

Ref No. Parts No. SP Description

R46 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R47 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R49 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R50 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R60 1-247-849-00 s CARBON 5.6k 5% 1/6W

R70 1-247-887-00 s CARBON 220k 5% 1/6W  
 R72 1-247-881-00 s CARBON 120k 5% 1/6W  
 R75 1-247-881-00 s CARBON 120k 5% 1/6W  
 R77 1-247-755-11 s CARBON 1.8k 5% 1/2W  
 R81 1-247-849-00 s CARBON 5.6k 5% 1/6W

R84 1-247-887-00 s CARBON 220k 5% 1/6W  
 R86 1-247-881-00 s CARBON 120k 5% 1/6W  
 R109 1-247-895-00 s CARBON 470k 5% 1/6W  
 R116 1-249-480-11 s CARBON 3.3 5% 1/2W  
 R117 1-249-480-11 s CARBON 3.3 5% 1/2W

R132 1-247-895-00 s CARBON 470k 5% 1/6W  
 R141 1-249-480-11 s CARBON 3.3 5% 1/2W  
 R142 1-249-480-11 s CARBON 3.3 5% 1/2W  
 R158 1-247-887-00 s CARBON 220k 5% 1/6W  
 R167 1-249-480-11 s CARBON 3.3 5% 1/2W

R168 1-249-480-11 s CARBON 3.3 5% 1/2W  
 R177 1-247-887-00 s CARBON 220k 5% 1/6W  
 R187 1-249-480-11 s CARBON 3.3 5% 1/2W  
 R188 1-249-480-11 s CARBON 3.3 5% 1/2W  
 R199 1-247-887-00 s CARBON 220k 5% 1/6W

R200 1-247-731-11 s CARBON 22 5% 1/2W  
 R203 1-247-887-00 s CARBON 220k 5% 1/6W  
 R204 1-247-731-11 s CARBON 22 5% 1/2W  
 R211 1-247-895-00 s CARBON 470k 5% 1/6W  
 R212 1-247-895-00 s CARBON 470k 5% 1/6W

RV1 1-228-998-00 s VAR, CARBON 220k  
 RV2 1-228-998-00 s VAR, CARBON 220k  
 RV3 1-228-995-00 s VAR, CARBON 22k  
 RV4 1-228-990-00 s VAR, CARBON 1k  
 RV5 1-228-996-00 s VAR, CARBON 47k

RV6 1-228-995-00 s VAR, CARBON 22k  
 RV7 1-228-990-00 s VAR, CARBON 1k  
 RV8 1-228-993-00 s VAR, CARBON 4.7k  
 RV9 1-228-993-00 s VAR, CARBON 4.7k  
 RV10 1-228-996-00 s VAR, CARBON 47k

RV11 1-228-996-00 s VAR, CARBON 47k  
 RV101 1-230-500-11 s VAR, CARBON 220k  
 RV102 1-230-500-11 s VAR, CARBON 220k  
 RV103 1-230-500-11 s VAR, CARBON 220k  
 RV104 1-230-726-11 s VAR, CARBON 470k

RV105 1-230-500-11 s VAR, CARBON 220k  
 RV106 1-230-726-11 s VAR, CARBON 470k

Parts that are not listed in the "reference number order list"  
 are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

AU-87 BOARD

A-6713-283-A o MOUNTED CIRCUIT BOARD, AU-87

|     |              |   |         |       |     |     |
|-----|--------------|---|---------|-------|-----|-----|
| C1  | 1-162-294-31 | s | CERAMIC | 0.001 | 10% | 50V |
| C3  | 1-162-207-31 | s | CERAMIC | 22PF  | 5%  | 50V |
| C6  | 1-124-445-00 | s | ELECT   | 100   | 20% | 16V |
| C9  | 1-124-445-00 | s | ELECT   | 100   | 20% | 16V |
| C13 | 1-162-294-31 | s | CERAMIC | 0.001 | 10% | 50V |

|      |              |   |          |      |     |     |
|------|--------------|---|----------|------|-----|-----|
| C15  | 1-162-207-31 | s | CERAMIC  | 22PF | 5%  | 50V |
| C101 | 1-124-284-00 | s | ELECT    | 10   | 20% | 16V |
| C102 | 1-162-207-31 | s | CERAMIC  | 22PF | 5%  | 50V |
| C104 | 1-131-365-00 | s | TANTALUM | 10   | 10% | 16V |
| C105 | 1-124-284-00 | s | ELECT    | 10   | 20% | 16V |

|      |              |   |         |       |     |     |
|------|--------------|---|---------|-------|-----|-----|
| C106 | 1-162-207-31 | s | CERAMIC | 22PF  | 5%  | 50V |
| C108 | 1-162-207-31 | s | CERAMIC | 22PF  | 5%  | 50V |
| C113 | 1-162-282-31 | s | CERAMIC | 100PF | 10% | 50V |
| C202 | 1-124-445-00 | s | ELECT   | 100   | 20% | 16V |
| C203 | 1-161-379-00 | s | CERAMIC | 0.01  | 30% | 16V |

|      |              |   |         |      |     |     |
|------|--------------|---|---------|------|-----|-----|
| C208 | 1-124-445-00 | s | ELECT   | 100  | 20% | 16V |
| C209 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |

|      |              |   |        |  |  |  |
|------|--------------|---|--------|--|--|--|
| D101 | 8-719-901-33 | s | 1SS133 |  |  |  |
| D102 | 8-719-901-33 | s | 1SS133 |  |  |  |
| D103 | 8-719-200-02 | s | 10E-2  |  |  |  |
| D104 | 8-719-200-02 | s | 10E-2  |  |  |  |
| D105 | 8-719-901-33 | s | 1SS133 |  |  |  |

|      |              |   |            |  |  |  |
|------|--------------|---|------------|--|--|--|
| D106 | 8-719-901-33 | s | 1SS133     |  |  |  |
| D107 | 8-719-901-33 | s | 1SS133     |  |  |  |
| D108 | 8-719-901-33 | s | 1SS133     |  |  |  |
| D109 | 8-719-109-88 | s | RD5.6ES-B1 |  |  |  |
| D201 | 8-719-110-05 | s | RD8.2ES-B  |  |  |  |

|      |              |   |            |  |  |  |
|------|--------------|---|------------|--|--|--|
| D203 | 8-719-110-13 | s | RD9.1ES-B2 |  |  |  |
| D204 | 8-719-110-13 | s | RD9.1ES-B2 |  |  |  |
| D205 | 8-719-109-58 | s | RD2.7ES-B  |  |  |  |

|       |              |   |                   |  |  |  |
|-------|--------------|---|-------------------|--|--|--|
| IC1   | 8-759-705-62 | s | NJM4562D-D(JRC)   |  |  |  |
| IC100 | 8-759-705-62 | s | NJM4562D-D(JRC)   |  |  |  |
| IC101 | 8-759-705-62 | s | NJM4562D-D(JRC)   |  |  |  |
| IC102 | 8-759-240-51 | s | TC4051BP(TOSHIBA) |  |  |  |

|    |              |   |     |  |  |  |
|----|--------------|---|-----|--|--|--|
| L1 | 1-407-519-00 | s | 8mH |  |  |  |
| L2 | 1-407-519-00 | s | 8mH |  |  |  |

|      |              |   |           |  |  |  |
|------|--------------|---|-----------|--|--|--|
| Q101 | 8-729-306-92 | s | 2SD669A   |  |  |  |
| Q102 | 8-729-304-92 | s | 2SB649A   |  |  |  |
| Q103 | 8-729-117-54 | s | 2SA1175   |  |  |  |
| Q104 | 8-729-201-05 | s | 2SC2878-B |  |  |  |
| Q105 | 8-729-306-92 | s | 2SD669A   |  |  |  |

|      |              |   |           |  |  |  |
|------|--------------|---|-----------|--|--|--|
| Q106 | 8-729-304-92 | s | 2SB649A   |  |  |  |
| Q107 | 8-729-201-05 | s | 2SC2878-B |  |  |  |
| Q108 | 8-729-117-54 | s | 2SA1175   |  |  |  |
| Q109 | 8-729-306-92 | s | 2SD669A   |  |  |  |
| Q110 | 8-729-304-92 | s | 2SB649A   |  |  |  |

Ref No. Parts No. SP Description

|      |              |   |           |  |  |  |
|------|--------------|---|-----------|--|--|--|
| Q111 | 8-729-201-05 | s | 2SC2878-B |  |  |  |
| Q112 | 8-729-117-54 | s | 2SA1175   |  |  |  |
| Q113 | 8-729-201-05 | s | 2SC2878-B |  |  |  |
| Q114 | 8-729-117-54 | s | 2SA1175   |  |  |  |
| Q201 | 8-729-373-92 | s | 2SB739    |  |  |  |

|      |              |   |         |  |  |  |
|------|--------------|---|---------|--|--|--|
| Q202 | 8-729-378-84 | s | 2SD788  |  |  |  |
| Q203 | 8-729-178-54 | s | 2SC2785 |  |  |  |
| Q204 | 8-729-117-54 | s | 2SA1175 |  |  |  |
| Q205 | 8-729-378-84 | s | 2SD788  |  |  |  |
| Q206 | 8-729-373-92 | s | 2SB739  |  |  |  |

|      |              |   |        |     |    |      |
|------|--------------|---|--------|-----|----|------|
| R108 | 1-247-727-11 | s | CARBON | 10  | 5% | 1/2W |
| R109 | 1-247-727-11 | s | CARBON | 10  | 5% | 1/2W |
| R110 | 1-249-479-11 | s | CARBON | 2.7 | 5% | 1/2W |
| R120 | 1-247-727-11 | s | CARBON | 10  | 5% | 1/2W |
| R121 | 1-247-727-11 | s | CARBON | 10  | 5% | 1/2W |

|      |              |   |        |     |    |      |
|------|--------------|---|--------|-----|----|------|
| R122 | 1-249-479-11 | s | CARBON | 2.7 | 5% | 1/2W |
| R131 | 1-247-727-11 | s | CARBON | 10  | 5% | 1/2W |
| R132 | 1-247-727-11 | s | CARBON | 10  | 5% | 1/2W |
| R133 | 1-249-479-11 | s | CARBON | 2.7 | 5% | 1/2W |
| R202 | 1-247-764-11 | s | CARBON | 10k | 5% | 1/2W |

|      |              |   |        |      |    |      |
|------|--------------|---|--------|------|----|------|
| R204 | 1-247-760-11 | s | CARBON | 4.7k | 5% | 1/2W |
| R205 | 1-247-745-11 | s | CARBON | 330  | 5% | 1/2W |
| R208 | 1-247-764-11 | s | CARBON | 10k  | 5% | 1/2W |
| R212 | 1-247-745-11 | s | CARBON | 330  | 5% | 1/2W |

|     |              |   |             |      |  |  |
|-----|--------------|---|-------------|------|--|--|
| RV1 | 1-228-993-00 | s | VAR, CARBON | 4.7k |  |  |
| RV2 | 1-228-993-00 | s | VAR, CARBON | 4.7k |  |  |
| RV3 | 1-228-995-00 | s | VAR, CARBON | 22k  |  |  |

|    |              |   |       |  |  |  |
|----|--------------|---|-------|--|--|--|
| S1 | 1-552-574-21 | s | SLIDE |  |  |  |
| S2 | 1-552-574-21 | s | SLIDE |  |  |  |

|      |              |   |              |  |  |  |
|------|--------------|---|--------------|--|--|--|
| T1   | 1-427-585-11 | s | INPUT/OUTPUT |  |  |  |
| T2   | 1-427-585-11 | s | INPUT/OUTPUT |  |  |  |
| T101 | 1-427-586-11 | s | INPUT/OUTPUT |  |  |  |
| T102 | 1-427-586-11 | s | INPUT/OUTPUT |  |  |  |
| T103 | 1-427-586-11 | s | INPUT/OUTPUT |  |  |  |

BC-11 BOARD

A-6725-572-A o MOUNTED CIRCUIT BOARD, BC-11

|      |              |   |         |       |     |     |
|------|--------------|---|---------|-------|-----|-----|
| C105 | 1-161-379-00 | s | CERAMIC | 0.01  | 30% | 16V |
| C106 | 1-162-282-31 | s | CERAMIC | 100PF | 10% | 50V |
| C107 | 1-124-445-00 | s | ELECT   | 100   | 20% | 16V |
| C108 | 1-124-445-00 | s | ELECT   | 100   | 20% | 16V |
| C111 | 1-124-445-00 | s | ELECT   | 100   | 20% | 16V |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description            | Ref No. | Parts No.    | SP | Description               |
|---------|--------------|----|------------------------|---------|--------------|----|---------------------------|
| C114    | 1-124-927-11 | s  | ELECT 4.7 20% 50V      | Q102    | 8-729-178-54 | s  | 2SC2785                   |
| C118    | 1-124-445-00 | s  | ELECT 100 20% 16V      | Q103    | 8-729-178-54 | s  | 2SC2785                   |
| C120    | 1-124-445-00 | s  | ELECT 100 20% 16V      | Q104    | 8-729-201-05 | s  | 2SC2878-B                 |
| C122    | 1-124-445-00 | s  | ELECT 100 20% 16V      | Q105    | 8-729-178-54 | s  | 2SC2785                   |
| C123    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V   | Q106    | 8-729-178-54 | s  | 2SC2785                   |
| C124    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V   | Q107    | 8-729-178-54 | s  | 2SC2785                   |
| C126    | 1-124-445-00 | s  | ELECT 100 20% 16V      | Q108    | 8-729-900-65 | s  | DTA144ES                  |
| C128    | 1-124-927-11 | s  | ELECT 4.7 20% 50V      | Q109    | 8-729-900-89 | s  | DTC144ES                  |
| C129    | 1-124-445-00 | s  | ELECT 100 20% 16V      | Q110    | 8-729-201-05 | s  | 2SC2878-B                 |
| C131    | 1-162-282-31 | s  | CERAMIC 100PF 10% 50V  | Q111    | 8-729-178-54 | s  | 2SC2785                   |
| C201    | 1-131-351-00 | s  | TANTALUM 4.7 10% 25V   | Q115    | 8-729-117-54 | s  | 2SA1175                   |
| C202    | 1-131-351-00 | s  | TANTALUM 4.7 10% 25V   | Q116    | 8-729-178-54 | s  | 2SC2785                   |
| C203    | 1-124-927-11 | s  | ELECT 4.7 20% 50V      | Q201    | 8-729-201-05 | s  | 2SC2878-B                 |
| C204    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V   | Q202    | 8-729-117-54 | s  | 2SA1175                   |
| C303    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V   | Q401    | 8-729-900-89 | s  | DTC144ES                  |
| C304    | 1-162-288-31 | s  | CERAMIC 330PF 10% 50V  | Q402    | 8-729-900-89 | s  | DTC144ES                  |
| C402    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V   | Q403    | 8-729-900-89 | s  | DTC144ES                  |
| C405    | 1-102-116-00 | s  | CERAMIC 680PF 10% 50V  | Q404    | 8-729-900-89 | s  | DTC144ES                  |
| CN108   | 1-506-747-21 | o  | PIN, CIN(DIP) 64P      | Q405    | 8-729-900-89 | s  | DTC144ES                  |
| CP201   | 1-464-805-11 | s  | OSCILLATION UNIT, BIAS | Q406    | 8-729-900-89 | s  | DTC144ES                  |
| D101    | 8-719-101-97 | s  | 1SS97-1                | Q407    | 8-729-900-89 | s  | DTC144ES                  |
| D102    | 8-719-101-97 | s  | 1SS97-1                | Q408    | 8-729-900-89 | s  | DTC144ES                  |
| D103    | 8-719-901-33 | s  | 1SS133                 | Q409    | 8-729-900-89 | s  | DTC144ES                  |
| D104    | 8-719-901-33 | s  | 1SS133                 | Q410    | 8-729-900-89 | s  | DTC144ES                  |
| D105    | 8-719-901-33 | s  | 1SS133                 | Q411    | 8-729-900-89 | s  | DTC144ES                  |
| D106    | 8-719-109-88 | s  | RD5.6ES-B1             | Q412    | 8-729-900-89 | s  | DTC144ES                  |
| D107    | 8-719-901-33 | s  | 1SS133                 | Q413    | 8-729-900-89 | s  | DTC144ES                  |
| D201    | 8-719-901-33 | s  | 1SS133                 | Q414    | 8-729-900-89 | s  | DTC144ES                  |
| D202    | 8-719-901-33 | s  | 1SS133                 | Q415    | 8-729-900-89 | s  | DTC144ES                  |
| D402    | 8-719-901-33 | s  | 1SS133                 | Q416    | 8-729-178-54 | s  | 2SC2785                   |
| D403    | 8-719-901-33 | s  | 1SS133                 | Q417    | 8-729-900-89 | s  | DTC144ES                  |
| IC101   | 8-759-700-04 | s  | NJM2043D-D(JRC)        | Q418    | 8-729-900-89 | s  | DTC144ES                  |
| IC102   | 8-752-006-00 | s  | CX20060(SONY)          | Q420    | 8-729-900-89 | s  | DTC144ES                  |
| IC103   | 8-752-006-00 | s  | CX20060(SONY)          | Q421    | 8-729-900-89 | s  | DTC144ES                  |
| IC104   | 8-759-729-03 | s  | NJM2903D(JRC)          | Q422    | 8-729-900-89 | s  | DTC144ES                  |
| IC105   | 8-759-240-53 | s  | TC4053BP(TOSHIBA)      | Q423    | 8-729-900-89 | s  | DTC144ES                  |
| IC106   | 8-759-705-62 | s  | NJM4562D-D(JRC)        | Q424    | 8-729-900-89 | s  | DTC144ES                  |
| IC107   | 8-759-240-53 | s  | TC4053BP(TOSHIBA)      | Q425    | 8-729-900-89 | s  | DTC144ES                  |
| IC201   | 8-759-708-09 | s  | NJM78L09A(JRC)         | Q426    | 8-729-900-89 | s  | DTC144ES                  |
| IC301   | 8-759-240-69 | s  | TC4069UBP(TOSHIBA)     | Q427    | 8-729-900-74 | s  | DTC143TS                  |
| IC302   | 8-759-240-24 | s  | TC4024BP(TOSHIBA)      | R120    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W       |
| IC401   | 8-759-944-64 | s  | MB88525-179M(FUJITSU)  | RV101   | 1-228-996-00 | s  | VAR, CARBON 47k           |
| IC402   | 8-759-240-69 | s  | TC4069UBP(TOSHIBA)     | RV102   | 1-228-994-00 | s  | VAR, CARBON 10k           |
| IC403   | 8-759-240-69 | s  | TC4069UBP(TOSHIBA)     | X301    | 1-567-875-11 | s  | VIBRATOR, CERAMIC 2.27MHz |
| IC404   | 8-759-000-99 | s  | MC74HC74N(TOSHIBA)     | X401    | 1-567-143-00 | s  | OSCILLATOR, CERAMIC 6MHz  |
| L201    | 1-408-596-41 | s  | MICRO 2.7              |         |              |    |                           |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

CC-31 BOARD

1-622-255-11 o PRINTED CIRCUIT BOARD, CC-31

R1 1-247-705-11 s CARBON 270 5% 1/4W  
R2 1-247-717-11 s CARBON 2.2K 5% 1/4W  
R3 1-247-705-11 s CARBON 270 5% 1/4W  
R4 1-247-717-11 s CARBON 2.2K 5% 1/4W

CC-32 BOARD

1-622-256-11 o PRINTED CIRCUIT BOARD, CC-32

IC1 8-719-940-86 s GP1L53(SHARP)

CC-33 BOARD

1-622-257-11 o PRINTED CIRCUIT BOARD, CC-33

IC2 8-719-940-86 s GP1L53(SHARP)

CP-109 BOARD

1-622-706-11 o PRINTED CIRCUIT BOARD, CP-109

C1 1-124-236-00 s ELECT 100 20% 10V  
C2 1-124-584-00 s ELECT 47 20% 16V  
C3 1-124-584-00 s ELECT 47 20% 16V  
C4 1-124-584-00 s ELECT 47 20% 16V

Q1 8-729-603-50 o 2SC403SP  
UC: S/N 10081 and Higher  
J: S/N 10021 and Higher  
Q2 8-729-603-50 o 2SC403SP  
UC: S/N 10081 and Higher  
J: S/N 10021 and Higher

S1 1-570-145-11 s SLIDE "75ohm ON/OFF"  
S2 1-570-145-11 s SLIDE "75 ohm ON/OFF"  
S3 1-570-145-11 s SLIDE "SERVO LOCK"  
S4 1-570-145-11 s SLIDE "FRAMING"  
S5 1-570-145-11 s SLIDE "EXT TBC"

Ref No. Parts No. SP Description

DM-54 BOARD

A-6711-824-A o MOUNTED CIRCUIT BOARD, DM-54

C1 1-161-494-00 s CERAMIC 0.022 30% 25V  
C2 1-124-236-00 s ELECT 47 20% 16V  
C3 1-161-379-00 s CERAMIC 0.01 30% 16V  
C4 1-124-236-00 s ELECT 47 20% 16V  
C5 1-161-379-00 s CERAMIC 0.01 30% 16V

C8 1-124-462-00 s ELECT 10 20% 16V  
C11 1-161-494-00 s CERAMIC 0.022 30% 25V  
C16 1-161-494-00 s CERAMIC 0.022 30% 25V  
C25 1-124-236-00 s ELECT 47 20% 16V  
C28 1-161-494-00 s CERAMIC 0.022 30% 25V

C29 1-161-494-00 s CERAMIC 0.022 30% 25V  
C31 1-124-236-00 s ELECT 47 20% 16V  
C32 1-161-494-00 s CERAMIC 0.022 30% 25V  
C33 1-161-494-00 s CERAMIC 0.022 30% 25V  
C35 1-161-494-00 s CERAMIC 0.022 30% 25V

C36 1-124-236-00 s ELECT 47 20% 16V  
C39 1-161-494-00 s CERAMIC 0.022 30% 25V  
C43 1-124-584-00 s ELECT 100 20% 10V  
C46 1-124-584-00 s ELECT 100 20% 10V  
C47 1-124-584-00 s ELECT 100 20% 10V

C51 1-124-584-00 s ELECT 100 20% 10V  
C52 1-124-584-00 s ELECT 100 20% 10V  
C54 1-124-584-00 s ELECT 100 20% 10V  
C57 1-124-584-00 s ELECT 100 20% 10V  
C59 1-124-584-00 s ELECT 100 20% 10V

C62 1-124-236-00 s ELECT 47 20% 16V  
C63 1-161-494-00 s CERAMIC 0.022 30% 25V  
C64 1-124-584-00 s ELECT 100 20% 10V  
C66 1-124-584-00 s ELECT 100 20% 10V  
C69 1-124-584-00 s ELECT 100 20% 10V

C71 1-124-584-00 s ELECT 100 20% 10V  
C73 1-162-294-31 s CERAMIC 0.001 10% 50V  
C74 1-161-379-00 s CERAMIC 0.01 30% 16V  
C75 1-124-462-00 s ELECT 10 20% 16V  
C76 1-124-257-00 s ELECT 2.2 20% 50V

C77 1-124-584-00 s ELECT 100 20% 10V  
C78 1-161-494-00 s CERAMIC 0.022 30% 25V  
C79 1-124-236-00 s ELECT 47 20% 16V  
C80 1-124-584-00 s ELECT 100 20% 10V  
C81 1-124-236-00 s ELECT 47 20% 16V

C82 1-161-494-00 s CERAMIC 0.022 30% 25V  
C83 1-124-584-00 s ELECT 100 20% 10V  
C86 1-124-584-00 s ELECT 100 20% 10V  
C89 1-124-584-00 s ELECT 100 20% 10V  
C90 1-124-236-00 s ELECT 47 20% 16V

C91 1-124-584-00 s ELECT 100 20% 10V  
C92 1-124-236-00 s ELECT 47 20% 16V  
C93 1-124-236-00 s ELECT 47 20% 16V  
C94 1-161-494-00 s CERAMIC 0.022 30% 25V  
C98 1-161-494-00 s CERAMIC 0.022 30% 25V

C99 1-161-494-00 s CERAMIC 0.022 30% 25V  
C100 1-162-286-31 s CERAMIC 220PF 10% 50V  
C101 1-162-286-31 s CERAMIC 220PF 10% 50V  
C102 1-161-379-00 s CERAMIC 0.01 30% 16V  
C104 1-102-112-00 s CERAMIC 330PF 10% 50V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description           | Ref No. | Parts No.    | SP | Description           |
|---------|--------------|----|-----------------------|---------|--------------|----|-----------------------|
| C201    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C527    | 1-124-255-00 | s  | ELECT 1 20% 50V       |
| C202    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C529    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C203    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C531    | 1-124-255-00 | s  | ELECT 1 20% 50V       |
| C205    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C532    | 1-124-255-00 | s  | ELECT 1 20% 50V       |
| C209    | 1-124-245-00 | s  | ELECT 4.7 20% 16V     | C533    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C210    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C534    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C212    | 1-124-255-00 | s  | ELECT 1 20% 50V       | C535    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C213    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C537    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C215    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C538    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C216    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C541    | 1-131-344-00 | s  | TANTALUM 0.33 10% 35V |
| C217    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C543    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C218    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C544    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C219    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C547    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C220    | 1-124-584-00 | s  | ELECT 100 20% 10V     | C548    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C221    | 1-124-584-00 | s  | ELECT 100 20% 10V     | C549    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C252    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C550    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C253    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C552    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C301    | 1-126-103-11 | s  | ELECT 470 20% 16V     | C553    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C302    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C554    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C303    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C557    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C304    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C558    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C305    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C559    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C307    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C561    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C309    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C562    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C312    | 1-124-255-00 | s  | ELECT 1 20% 50V       | C563    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C314    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C564    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C401    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C566    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C402    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C569    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C403    | 1-124-584-00 | s  | ELECT 100 20% 10V     | C570    | 1-124-255-00 | s  | ELECT 1 20% 50V       |
| C404    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C571    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C405    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C572    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C406    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C573    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C407    | 1-124-584-00 | s  | ELECT 100 20% 10V     | C574    | 1-101-890-00 | s  | CERAMIC 75PF 5% 50V   |
| C408    | 1-124-584-00 | s  | ELECT 100 20% 10V     | C575    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C411    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C576    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C412    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C578    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C413    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C579    | 1-131-344-00 | s  | TANTALUM 0.33 10% 35V |
| C414    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C580    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C417    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C582    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C418    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C583    | 1-162-294-31 | s  | CERAMIC 0.001 10% 50V |
| C426    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C585    | 1-131-343-00 | s  | TANTALUM 0.22 10% 35V |
| C427    | 1-131-341-00 | s  | TANTALUM 0.1 10% 35V  | C587    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C428    | 1-102-114-00 | s  | CERAMIC 470PF 10% 50V | C588    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C430    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C589    | 1-131-349-00 | s  | TANTALUM 2.2 10% 35V  |
| C501    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C591    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C502    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C592    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C507    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C595    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C509    | 1-124-462-00 | s  | ELECT 10 20% 16V      | C596    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C511    | 1-124-255-00 | s  | ELECT 1 20% 50V       | C597    | 1-131-349-00 | s  | TANTALUM 2.2 10% 35V  |
| C512    | 1-124-257-00 | s  | ELECT 2.2 20% 50V     | C598    | 1-131-379-00 | s  | TANTALUM 22 10% 10V   |
| C513    | 1-124-257-00 | s  | ELECT 2.2 20% 50V     | C599    | 1-131-349-00 | s  | TANTALUM 2.2 10% 35V  |
| C516    | 1-124-257-00 | s  | ELECT 2.2 20% 50V     | C600    | 1-131-379-00 | s  | TANTALUM 22 10% 10V   |
| C517    | 1-124-462-00 | s  | ELECT 10 20% 16V      | C601    | 1-124-255-00 | s  | ELECT 1 20% 50V       |
| C520    | 1-124-462-00 | s  | ELECT 10 20% 16V      | C602    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C521    | 1-124-462-00 | s  | ELECT 10 20% 16V      | C604    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C522    | 1-124-462-00 | s  | ELECT 10 20% 16V      | C605    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C523    | 1-124-257-00 | s  | ELECT 2.2 20% 50V     | C606    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C524    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C607    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C525    | 1-124-236-00 | s  | ELECT 47 20% 16V      | C608    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C526    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C609    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description           |
|---------|--------------|----|-----------------------|
| C610    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C611    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C613    | 1-124-255-00 | s  | ELECT 1 20% 50V       |
| C616    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C617    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C618    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C619    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C620    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C621    | 1-123-321-00 | s  | ELECT 220 20% 16V     |
| C622    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C623    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C625    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C626    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C627    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C628    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C629    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C630    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C631    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C632    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C633    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C634    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C635    | 1-124-236-00 | s  | ELECT 47 20% 16V      |
| C636    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C638    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C639    | 1-124-462-00 | s  | ELECT 10 20% 16V      |
| C640    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C641    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| CN103   | 1-506-747-21 | o  | PIN, DIN (DIP) 64P    |
| CN104   | 1-506-747-21 | o  | PIN, DIN (DIP) 64P    |
| CV1     | 1-141-227-00 | s  | CERAMIC TRIMMER       |
| CV2     | 1-141-227-00 | s  | CERAMIC TRIMMER       |
| CV3     | 1-141-304-21 | s  | CERAMIC TRIMMER       |
| D1      | 8-719-911-19 | s  | 1SS119                |
| D2      | 8-719-911-19 | s  | 1SS119                |
| D3      | 8-719-911-19 | s  | 1SS119                |
| D4      | 8-719-911-19 | s  | 1SS119                |
| D5      | 8-719-911-19 | s  | 1SS119                |
| D6      | 8-719-911-19 | s  | 1SS119                |
| D7      | 8-719-109-70 | s  | RD3.9ESB              |
| D251    | 8-719-911-19 | s  | 1SS119                |
| D252    | 8-719-911-19 | s  | 1SS119                |
| D301    | 8-719-101-97 | s  | 1SS97-1               |
| D302    | 8-719-101-97 | s  | 1SS97-1               |
| D303    | 8-719-104-10 | s  | 1SS99                 |
| D304    | 8-719-104-10 | s  | 1SS99                 |
| D305    | 8-719-911-19 | s  | 1SS119                |
| D306    | 8-719-911-19 | s  | 1SS119                |

| Ref No. | Parts No.    | SP | Description       |
|---------|--------------|----|-------------------|
| D401    | 8-719-911-19 | s  | 1SS119            |
| D402    | 8-719-911-19 | s  | 1SS119            |
| D403    | 8-719-110-13 | s  | RD9.1ES-B2        |
| D404    | 8-719-911-19 | s  | 1SS119            |
| D501    | 8-719-911-19 | s  | 1SS119            |
| D502    | 8-719-911-19 | s  | 1SS119            |
| D503    | 8-719-911-19 | s  | 1SS119            |
| D504    | 8-719-911-19 | s  | 1SS119            |
| D505    | 8-719-911-19 | s  | 1SS119            |
| D506    | 8-719-911-19 | s  | 1SS119            |
| D508    | 8-719-911-19 | s  | 1SS119            |
| D509    | 8-719-911-19 | s  | 1SS119            |
| D510    | 8-719-911-19 | s  | 1SS119            |
| D511    | 8-719-911-19 | s  | 1SS119            |
| D512    | 8-719-911-19 | s  | 1SS119            |
| D513    | 8-719-911-19 | s  | 1SS119            |
| D514    | 8-719-104-10 | s  | 1SS99             |
| D515    | 8-719-104-10 | s  | 1SS99             |
| D516    | 8-719-104-10 | s  | 1SS99             |
| D517    | 8-719-104-10 | s  | 1SS99             |
| D518    | 8-719-911-19 | s  | 1SS119            |
| D519    | 8-719-911-19 | s  | 1SS119            |
| D520    | 8-719-911-19 | s  | 1SS119            |
| D521    | 8-719-911-19 | s  | 1SS119            |
| D522    | 8-719-911-19 | s  | 1SS119            |
| DL1     | 1-415-162-21 | s  | 50ns              |
| DL2     | 1-415-154-21 | s  | 35ns              |
| DL3     | 1-415-452-21 | s  | 810ns             |
| DL4     | 1-415-545-11 | s  | 350ns             |
| DL501   | 1-415-402-11 | s  | 300ns             |
| DL502   | 1-415-402-11 | s  | 300ns             |
| DL504   | 1-415-544-11 | s  | 450ns             |
| DL506   | 1-415-402-11 | s  | 300ns             |
| FL1     | 1-235-623-11 | s  | HPF               |
| FL2     | 1-231-581-21 | s  | HPF               |
| FL3     | 1-235-469-11 | s  | LPF               |
| FL4     | 1-235-475-11 | s  | LPF               |
| FL201   | 1-235-469-11 | s  | LPF               |
| FL501   | 1-235-617-11 | s  | LPF               |
| FL502   | 1-235-048-21 | s  | LPF               |
| FL503   | 1-235-619-11 | s  | BPF               |
| FL504   | 1-235-618-21 | s  | BPF               |
| IC1     | 8-759-601-34 | s  | CX-134A(SONY)     |
| IC2     | 8-752-006-00 | s  | CX20060(SONY)     |
| IC3     | 8-741-114-00 | s  | BX1140(SONY)      |
| IC4     | 8-751-350-10 | s  | CX-135(SONY)      |
| IC5     | 8-759-240-53 | s  | TC4053BP(TOSHIBA) |
| IC6     | 8-749-938-90 | s  | BX389(SONY)       |
| IC7     | 8-741-124-90 | s  | BX1249(SONY)      |
| IC8     | 8-741-124-90 | s  | BX1249(SONY)      |
| IC9     | 8-759-145-58 | s  | UPC4558C(JRC)     |
| IC10    | 8-752-006-00 | s  | CX20060(SONY)     |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description          | Ref No. | Parts No.    | SP | Description |
|---------|--------------|----|----------------------|---------|--------------|----|-------------|
| IC11    | 8-759-400-06 | s  | AN608P(MATSUSHITA)   | L23     | 1-410-482-31 | s  | MICRO 100   |
| IC12    | 8-749-900-94 | s  | BX-1472(SONY)        | L24     | 1-410-482-31 | s  | MICRO 100   |
| IC201   | 8-759-207-38 | s  | TA7374P(TOSHIBA)     | L25     | 1-410-473-11 | s  | MICRO 18    |
| IC202   | 8-752-320-32 | s  | CXL5001P(SONY)       | L26     | 1-410-087-31 | s  | MICRO 10mH  |
| IC203   | 8-759-708-09 | s  | NJM78L09A(JRC)       | L28     | 1-410-482-31 | s  | MICRO 100   |
| IC204   | 8-749-938-90 | s  | BX389(SONY)          | L201    | 1-410-482-31 | s  | MICRO 100   |
| IC251   | 8-741-124-80 | s  | BX1248(SONY)         | L202    | 1-410-482-31 | s  | MICRO 100   |
| IC301   | 8-759-200-60 | s  | TA7060AP(TOSHIBA)    | L252    | 1-410-482-31 | s  | MICRO 100   |
| IC302   | 8-752-006-00 | s  | CX20060(SONY)        | L301    | 1-410-482-31 | s  | MICRO 100   |
| IC303   | 8-749-900-68 | s  | BX-1447L(SONY)       | L401    | 1-410-482-31 | s  | MICRO 100   |
| IC304   | 8-749-900-59 | s  | BX-1448L(SONY)       | L402    | 1-410-482-31 | s  | MICRO 100   |
| IC305   | 8-759-045-38 | s  | MC14538BCP(MOTOROLA) | L403    | 1-410-482-31 | s  | MICRO 100   |
| IC401   | 8-743-880-00 | s  | BX388(SONY)          | L404    | 1-410-482-31 | s  | MICRO 100   |
| IC402   | 8-752-006-00 | s  | CX20060(SONY)        | L501    | 1-410-482-31 | s  | MICRO 100   |
| IC403   | 8-759-240-53 | s  | TC4053BP(TOSHIBA)    | L502    | 1-410-482-31 | s  | MICRO 100   |
| IC404   | 8-749-936-51 | s  | BX365A(SONY)         | L504    | 1-410-482-31 | s  | MICRO 100   |
| IC405   | 8-749-936-61 | s  | BX366A(SONY)         | L506    | 1-410-482-31 | s  | MICRO 100   |
| IC406   | 8-749-936-51 | s  | BX365A(SONY)         | L507    | 1-410-482-31 | s  | MICRO 100   |
| IC407   | 8-749-936-61 | s  | BX366A(SONY)         | L508    | 1-410-482-31 | s  | MICRO 100   |
| IC408   | 8-759-201-47 | s  | TA7357AP(TOSHIBA)    | L509    | 1-410-482-31 | s  | MICRO 100   |
| IC501   | 8-741-124-70 | s  | BX1247(SONY)         | L510    | 1-410-478-11 | s  | MICRO 47    |
| IC502   | 8-752-006-00 | s  | CX20060(SONY)        | L512    | 1-410-482-31 | s  | MICRO 100   |
| IC503   | 8-749-938-90 | s  | BX389(SONY)          | L513    | 1-410-482-31 | s  | MICRO 100   |
| IC504   | 8-752-006-00 | s  | CX20060(SONY)        | L514    | 1-410-482-31 | s  | MICRO 100   |
| IC505   | 8-741-125-80 | s  | BX1258(SONY)         | L516    | 1-410-482-31 | s  | MICRO 100   |
| IC506   | 8-741-125-00 | s  | BX1250(SONY)         | L517    | 1-410-482-31 | s  | MICRO 100   |
| IC507   | 8-741-125-21 | s  | BX1252A(SONY)        | L518    | 1-410-482-31 | s  | MICRO 100   |
| IC508   | 8-741-126-40 | s  | BX1264(SONY)         | L519    | 1-410-482-31 | s  | MICRO 100   |
| IC509   | 8-752-006-00 | s  | CX20060(SONY)        | L520    | 1-410-482-31 | s  | MICRO 100   |
| IC510   | 8-759-014-96 | s  | MC1496P(MOTOROLA)    | L521    | 1-410-482-31 | s  | MICRO 100   |
| IC511   | 8-759-908-59 | s  | CX-859(SONY)         | LV1     | 1-407-573-00 | s  | VAR, 47     |
| IC512   | 8-750-000-46 | s  | CX-872(SONY)         | LV301   | 1-407-569-00 | s  | VAR, 10     |
| IC513   | 8-752-006-00 | s  | CX20060(SONY)        | LV501   | 1-407-268-00 | s  | MICRO 1.5mH |
| IC514   | 8-741-125-10 | s  | BX1251(SONY)         |         |              |    |             |
| IC515   | 8-759-045-38 | s  | MC14538BCP(MOTOROLA) |         |              |    |             |
| IC516   | 8-749-900-87 | s  | BX-1470L(SONY)       | Q1      | 8-729-603-50 | s  | 2SC403SP    |
| IC517   | 8-759-922-61 | s  | SN16913P-A(TI)       | Q2      | 8-729-603-50 | s  | 2SC403SP    |
| IC518   | 8-759-200-60 | s  | TA7060AP(TOSHIBA)    | Q3      | 8-729-603-50 | s  | 2SC403SP    |
| IC519   | 8-752-006-00 | s  | CX20060(SONY)        | Q5      | 8-729-900-89 | s  | DTC144ES    |
|         |              |    |                      | Q6      | 8-729-201-05 | s  | 2SC2878-B   |
| L1      | 1-410-482-31 | s  | MICRO 100            | Q7      | 8-729-603-50 | s  | 2SC403SP    |
| L2      | 1-410-087-31 | s  | MICRO 10mH           | Q8      | 8-729-603-50 | s  | 2SC403SP    |
| L3      | 1-410-471-11 | s  | MICRO 12             | Q9      | 8-729-603-50 | s  | 2SC403SP    |
| L4      | 1-410-471-11 | s  | MICRO 12             | Q10     | 8-729-901-41 | s  | 2SC1740S-R  |
| L5      | 1-410-087-31 | s  | MICRO 10mH           | Q11     | 8-729-113-32 | s  | 2SB733      |
| L7      | 1-410-473-11 | s  | MICRO 18             | Q12     | 8-729-901-41 | s  | 2SC1740S-R  |
| L8      | 1-410-477-21 | s  | MICRO 39             | Q13     | 8-729-603-50 | s  | 2SC403SP    |
| L9      | 1-410-092-31 | s  | MICRO 27mH           | Q14     | 8-729-603-50 | s  | 2SC403SP    |
| L10     | 1-410-461-41 | s  | MICRO 1.8            | Q15     | 8-729-900-89 | s  | DTC144ES    |
| L15     | 1-410-482-31 | s  | MICRO 100            | Q16     | 8-729-901-41 | s  | 2SC1740S-R  |
| L16     | 1-410-482-31 | s  | MICRO 100            | Q17     | 8-729-603-50 | s  | 2SC403SP    |
| L17     | 1-410-482-31 | s  | MICRO 100            | Q18     | 8-729-611-53 | s  | 2SA1115-F   |
| L18     | 1-410-473-11 | s  | MICRO 18             | Q19     | 8-729-603-50 | s  | 2SC403SP    |
| L19     | 1-410-476-11 | s  | MICRO 33             | Q20     | 8-729-603-50 | s  | 2SC403SP    |
| L22     | 1-410-482-31 | s  | MICRO 100            | Q21     | 8-729-603-50 | s  | 2SC403SP    |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description |
|---------|--------------|----|-------------|
| Q22     | 8-729-603-50 | s  | 2SC403SP    |
| Q23     | 8-729-603-50 | s  | 2SC403SP    |
| Q24     | 8-729-603-50 | s  | 2SC403SP    |
| Q25     | 8-729-105-72 | s  | 2SK523-L1   |
| Q26     | 8-729-201-05 | s  | 2SC2878-B   |
| Q27     | 8-729-201-05 | s  | 2SC2878-B   |
| Q28     | 8-729-603-50 | s  | 2SC403SP    |
| Q29     | 8-729-611-53 | s  | 2SA1115-F   |
| Q30     | 8-729-603-50 | s  | 2SC403SP    |
| Q31     | 8-729-603-50 | s  | 2SC403SP    |
| Q32     | 8-729-603-50 | s  | 2SC403SP    |
| Q33     | 8-729-603-50 | s  | 2SC403SP    |
| Q34     | 8-729-603-50 | s  | 2SC403SP    |
| Q35     | 8-729-603-50 | s  | 2SC403SP    |
| Q36     | 8-729-603-50 | s  | 2SC403SP    |
| Q37     | 8-729-201-05 | s  | 2SC2878-B   |
| Q38     | 8-729-603-50 | s  | 2SC403SP    |
| Q39     | 8-729-603-50 | s  | 2SC403SP    |
| Q40     | 8-729-603-50 | s  | 2SC403SP    |
| Q41     | 8-729-603-50 | s  | 2SC403SP    |
| Q42     | 8-729-603-50 | s  | 2SC403SP    |
| Q43     | 8-729-900-89 | s  | DTC144ES    |
| Q44     | 8-729-603-50 | s  | 2SC403SP    |
| Q45     | 8-729-603-50 | s  | 2SC403SP    |
| Q46     | 8-729-901-41 | s  | 2SC1740S-R  |
| Q47     | 8-729-900-89 | s  | DTC144ES    |
| Q48     | 8-729-201-05 | s  | 2SC2878-B   |
| Q201    | 8-729-603-50 | s  | 2SC403SP    |
| Q202    | 8-729-611-53 | s  | 2SA1115-F   |
| Q301    | 8-729-901-41 | s  | 2SC1740S-R  |
| Q302    | 8-729-901-41 | s  | 2SC1740S-R  |
| Q303    | 8-729-900-89 | s  | DTC144ES    |
| Q304    | 8-729-901-41 | s  | 2SC1740S-R  |
| Q305    | 8-729-901-41 | s  | 2SC1740S-R  |
| Q306    | 8-729-901-41 | s  | 2SC1740S-R  |
| Q307    | 8-729-901-41 | s  | 2SC1740S-R  |
| Q308    | 8-729-900-89 | s  | DTC144ES    |
| Q309    | 8-729-603-50 | s  | 2SC403SP    |
| Q401    | 8-729-900-89 | s  | DTC144ES    |
| Q402    | 8-729-603-50 | s  | 2SC403SP    |
| Q403    | 8-729-201-05 | s  | 2SC2878-B   |
| Q404    | 8-729-201-05 | s  | 2SC2878-B   |
| Q405    | 8-729-603-50 | s  | 2SC403SP    |
| Q406    | 8-729-275-42 | s  | 2SC2754-Y   |
| Q407    | 8-729-275-42 | s  | 2SC2754-Y   |
| Q408    | 8-729-900-89 | s  | DTC144ES    |
| Q409    | 8-729-611-53 | s  | 2SA1115-F   |
| Q410    | 8-729-611-53 | s  | 2SA1115-F   |
| Q411    | 8-729-611-53 | s  | 2SA1115-F   |
| Q412    | 8-729-611-53 | s  | 2SA1115-F   |
| Q501    | 8-729-901-41 | s  | 2SC1740S-R  |
| Q503    | 8-729-603-50 | s  | 2SC403SP    |
| Q504    | 8-729-603-50 | s  | 2SC403SP    |
| Q505    | 8-729-603-50 | s  | 2SC403SP    |
| Q506    | 8-729-901-41 | s  | 2SC1740S-R  |
| Q507    | 8-729-201-05 | s  | 2SC2878-B   |
| Q508    | 8-729-603-50 | s  | 2SC403SP    |
| Q509    | 8-729-603-50 | s  | 2SC403SP    |
| Q510    | 8-729-201-05 | s  | 2SC2878-B   |
| Q519    | 8-729-901-41 | s  | 2SC1740S-R  |

| Ref No. | Parts No.    | SP | Description         |
|---------|--------------|----|---------------------|
| Q520    | 8-729-603-50 | s  | 2SC403SP            |
| Q521    | 8-729-900-89 | s  | DTC144ES            |
| Q522    | 8-729-603-50 | s  | 2SC403SP            |
| Q523    | 8-729-201-05 | s  | 2SC2878-B           |
| Q524    | 8-729-201-05 | s  | 2SC2878-B           |
| Q525    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q526    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q527    | 8-729-611-53 | s  | 2SA1115-F           |
| Q528    | 8-729-201-05 | s  | 2SC2878-B           |
| Q529    | 8-729-201-05 | s  | 2SC2878-B           |
| Q530    | 8-729-201-05 | s  | 2SC2878-B           |
| Q532    | 8-729-900-89 | s  | DTC144ES            |
| Q533    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q534    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q535    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q536    | 8-729-603-50 | s  | 2SC403SP            |
| Q537    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q538    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q539    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q540    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q541    | 8-729-611-53 | s  | 2SA1115-F           |
| Q542    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q543    | 8-729-901-41 | s  | 2SC1740S-R          |
| Q544    | 8-729-201-05 | s  | 2SC2878-B           |
| Q545    | 8-729-603-50 | s  | 2SC403SP            |
| Q546    | 8-729-603-50 | s  | 2SC403SP            |
| Q547    | 8-729-603-50 | s  | 2SC403SP            |
| Q548    | 8-729-603-50 | s  | 2SC403SP            |
| Q549    | 8-729-900-89 | s  | DTC144ES            |
| Q550    | 8-729-603-50 | s  | 2SC403SP            |
| Q551    | 8-729-603-50 | s  | 2SC403SP            |
| Q552    | 8-729-900-89 | s  | DTC144ES            |
| Q553    | 8-729-900-89 | s  | DTC144ES            |
| R54     | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| R97     | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| R122    | 1-215-390-91 | s  | METAL 51 1% 1/6W    |
| R129    | 1-215-390-91 | s  | METAL 51 1% 1/6W    |
| R442    | 1-247-883-00 | s  | CARBON 150k 5% 1/6W |
| R443    | 1-247-895-00 | s  | CARBON 470k 5% 1/6W |
| R547    | 1-215-390-91 | s  | METAL 51 1% 1/6W    |
| R560    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| R565    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| R610    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| R623    | 1-247-885-00 | s  | CARBON 180k 5% 1/6W |
| R625    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| R656    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| R699    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| R704    | 1-215-390-91 | s  | METAL 51 1% 1/6W    |
| RV1     | 1-228-990-00 | s  | VAR, CARBON 1k      |
| RV2     | 1-228-990-00 | s  | VAR, CARBON 1k      |
| RV3     | 1-228-990-00 | s  | VAR, CARBON 1k      |
| RV4     | 1-228-991-00 | s  | VAR, CARBON 2.2k    |
| RV5     | 1-228-991-00 | s  | VAR, CARBON 2.2k    |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

RV6 1-228-991-00 s VAR, CARBON 2.2k  
 RV8 1-228-995-00 s VAR, CARBON 22k  
 RV9 1-228-991-00 s VAR, CARBON 2.2k  
 RV10 1-228-991-00 s VAR, CARBON 2.2k  
 RV11 1-228-991-00 s VAR, CARBON 2.2k

RV12 1-228-991-00 s VAR, CARBON 2.2k  
 RV13 1-228-995-00 s VAR, CARBON 22k  
 RV14 1-228-991-00 s VAR, CARBON 2.2k  
 RV15 1-228-990-00 s VAR, CARBON 1k  
 RV16 1-228-991-00 s VAR, CARBON 2.2k

RV201 1-228-989-00 s VAR, CARBON 470  
 RV251 1-228-993-00 s VAR, CARBON 4.7k  
 RV301 1-228-994-00 s VAR, CARBON 10k  
 RV401 1-228-991-00 s VAR, CARBON 2.2k  
 RV402 1-228-990-00 s VAR, CARBON 1k

RV403 1-228-993-00 s VAR, CARBON 4.7k  
 RV501 1-228-991-00 s VAR, CARBON 2.2k  
 RV502 1-228-990-00 s VAR, CARBON 1k  
 RV503 1-228-991-00 s VAR, CARBON 2.2k  
 RV504 1-228-989-00 s VAR, CARBON 470

RV505 1-228-993-00 s VAR, CARBON 4.7k  
 RV506 1-228-995-00 s VAR, CARBON 22k  
 RV507 1-228-994-00 s VAR, CARBON 10k  
 RV508 1-228-993-00 s VAR, CARBON 4.7k  
 RV509 1-228-995-00 s VAR, CARBON 22k

RV510 1-228-994-00 s VAR, CARBON 10k  
 RV511 1-228-993-00 s VAR, CARBON 4.7k  
 RV513 1-228-991-00 s VAR, CARBON 2.2k  
 RV514 1-228-991-00 s VAR, CARBON 2.2k  
 RV515 1-230-841-11 s VAR, METAL 2k

RV516 1-228-990-00 s VAR, CARBON 1k  
 RV517 1-228-990-00 s VAR, CARBON 1k  
 RV518 1-228-993-00 s VAR, CARBON 4.7k  
 RV519 1-228-995-00 s VAR, CARBON 22k  
 RV520 1-228-995-00 s VAR, CARBON 22k

RV521 1-228-991-00 s VAR, CARBON 2.2k  
 RV522 1-228-993-00 s VAR, CARBON 4.7k  
 RV523 1-228-991-00 s VAR, CARBON 2.2k  
 RV524 1-228-990-00 s VAR, CARBON 1k

S501 1-552-509-00 s DIP

T501 1-425-785-21 s TRANSFORMER, BURST AMP(BAT)

TH1 1-800-200-00 s THERMISTOR S-3K  
 TH501 1-800-200-00 s THERMISTOR S-3K  
 TH502 1-800-200-00 s THERMISTOR S-3K

X501 1-527-376-00 s OSCILLATOR, CRYSTAL 3.579545MHz

Ref No. Parts No. SP Description

DR-53 BOARD

This board includes the DR-59 board.

A-6715-367-A o MOUNTED CIRCUIT BOARD, DR-53

C9 1-102-121-00 s CERAMIC 0.0022 10% 50V  
 C10 1-102-121-00 s CERAMIC 0.0022 10% 50V  
 C11 1-102-121-00 s CERAMIC 0.0022 10% 50V  
 C12 1-102-121-00 s CERAMIC 0.0022 10% 50V

CN1 1-566-096-11 s PIN, BOARD TO BOARD 12P  
 (DR-53 to DR-59)  
 CN806 1-508-900-00 s (M) 2P

D1 8-719-911-55 s U05G  
 D2 8-719-200-02 s 10E-2  
 D3 8-719-200-02 s 10E-2  
 D4 8-719-200-02 s 10E-2

PS1 1-532-686-00 s LINK,  
 PS2 1-532-686-00 s LINK,

Q1 8-729-114-11 s 2SA1141  
 Q2 8-729-102-57 s 2SC3012  
 Q3 8-729-114-11 s 2SA1141  
 Q4 8-729-102-57 s 2SC3012  
 Q5 8-729-177-43 s 2SD774

Q6 8-729-377-12 s 2SA771  
 Q7 8-729-377-12 s 2SA771  
 Q8 8-729-177-43 s 2SD774  
 Q9 8-729-377-12 s 2SA771  
 Q10 8-729-377-12 s 2SA771

Q101 8-729-177-43 s 2SD774  
 Q102 8-729-103-43 s 2SB734  
 Q103 8-729-177-43 s 2SD774  
 Q104 8-729-103-43 s 2SB734

R2 1-217-156-00 s VAR, METAL PLATE 0.22  
 R4 1-217-156-00 s VAR, METAL PLATE 0.22  
 R5 1-247-887-00 s CARBON 220k 5% 1/6W  
 R6 1-207-620-00 s WIREWOUND 1 10% 3W  
 R7 1-247-887-00 s CARBON 220k 5% 1/6W

R8 1-207-620-00 s WIREWOUND 1 10% 3W  
 R101 1-247-887-00 s CARBON 220k 5% 1/6W  
 R102 1-247-741-11 s CARBON 150 5% 1/2W  
 R103 1-215-914-11 s WIREWOUND 330 10% 3W  
 R104 1-207-628-00 s WIREWOUND 10 10% 3W

R105 1-247-887-00 s CARBON 220k 5% 1/6W  
 R106 1-247-741-11 s CARBON 150 5% 1/2W  
 R107 1-215-914-11 s WIREWOUND 330 10% 3W  
 R108 1-207-628-00 s WIREWOUND 10 10% 3W

RV1 1-228-989-00 s VAR, CARBON 470  
 RV2 1-228-989-00 s VAR, CARBON 470

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

DSC-44 BOARD

A-6717-460-A o MOUNTED CIRCUIT BOARD, DSC-44

|    |              |   |         |       |     |     |
|----|--------------|---|---------|-------|-----|-----|
| C1 | 1-124-445-00 | s | ELECT   | 100   | 20% | 16V |
| C2 | 1-161-494-00 | s | CERAMIC | 0.022 | 30% | 25V |
| C3 | 1-124-445-00 | s | ELECT   | 100   | 20% | 16V |
| C4 | 1-161-494-00 | s | CERAMIC | 0.022 | 30% | 25V |
| C6 | 1-123-617-00 | s | ELECT   | 10    | 20% | 16V |

|     |              |   |         |       |     |     |
|-----|--------------|---|---------|-------|-----|-----|
| C7  | 1-123-617-00 | s | ELECT   | 10    | 20% | 16V |
| C8  | 1-161-494-00 | s | CERAMIC | 0.022 | 30% | 25V |
| C9  | 1-123-617-00 | s | ELECT   | 10    | 20% | 16V |
| C10 | 1-124-463-00 | s | ELECT   | 0.1   | 20% | 50V |
| C11 | 1-162-290-31 | s | CERAMIC | 470PF | 10% | 50V |

|     |              |   |         |       |     |      |
|-----|--------------|---|---------|-------|-----|------|
| C13 | 1-162-290-31 | s | CERAMIC | 470PF | 10% | 50V  |
| C14 | 1-161-494-00 | s | CERAMIC | 0.022 | 30% | 25V  |
| C15 | 1-161-494-00 | s | CERAMIC | 0.022 | 30% | 25V  |
| C16 | 1-123-617-00 | s | ELECT   | 10    | 20% | 16V  |
| C21 | 1-107-163-00 | s | MICA    | 47PF  | 5%  | 500V |

|     |              |   |         |       |     |     |
|-----|--------------|---|---------|-------|-----|-----|
| C23 | 1-161-494-00 | s | CERAMIC | 0.022 | 30% | 25V |
| C24 | 1-161-494-00 | s | CERAMIC | 0.022 | 30% | 25V |

CN230 1-506-747-21 o PIN, DIN(DIP) 64P

CV1 1-141-260-00 s CERAMIC TRIMMER

|    |              |   |          |
|----|--------------|---|----------|
| D1 | 8-719-144-07 | s | RD2.4E-B |
| D2 | 8-719-911-19 | s | 1SS119   |
| D3 | 8-719-911-19 | s | 1SS119   |

|     |              |   |                    |
|-----|--------------|---|--------------------|
| IC1 | 8-759-102-37 | s | UPD4052BC(TOSHIBA) |
| IC2 | 8-759-201-47 | s | TA7357AP(TOSHIBA)  |
| IC3 | 8-759-708-09 | s | NJM78L09A(JRC)     |
| IC4 | 8-759-908-23 | s | MB88303(FUJITSU)   |
| IC5 | 8-759-220-04 | s | TC40H004P(TOSHIBA) |

IC6 8-759-045-38 s MC14538BCP(MOTOROLA)

|    |              |   |         |
|----|--------------|---|---------|
| Q1 | 8-729-178-54 | s | 2SC2785 |
| Q2 | 8-729-178-54 | s | 2SC2785 |
| Q4 | 8-729-178-54 | s | 2SC2785 |
| Q5 | 8-729-178-54 | s | 2SC2785 |
| Q6 | 8-729-117-54 | s | 2SA1175 |

|     |              |   |        |      |    |      |
|-----|--------------|---|--------|------|----|------|
| R34 | 1-247-883-00 | s | CARBON | 150k | 5% | 1/6W |
| R36 | 1-247-895-00 | s | CARBON | 470k | 5% | 1/6W |

RV1 1-228-996-00 s VAR, CARBON 47k

Ref No. Parts No. SP Description

DUS-71 BOARD

All of the component parts on the DUS-71 board are supplied together when you order AU-83 board.

1-615-169-11 o PRINTED CIRCUIT BOARD, DUS-71

|       |              |   |       |      |
|-------|--------------|---|-------|------|
| LV102 | 1-407-307-00 | s | MICRO | 33mH |
| LV103 | 1-407-307-00 | s | MICRO | 33mH |

DUS-71 BOARD

All of the component parts on the DUS-71 board are supplied together when you order AU-84 board.

1-615-169-11 o PRINTED CIRCUIT BOARD, DUS-71

|       |              |   |       |      |
|-------|--------------|---|-------|------|
| LV202 | 1-407-307-00 | s | MICRO | 33mH |
| LV203 | 1-407-307-00 | s | MICRO | 33mH |

DUS-92 BOARD

1-615-924-11 o PRINTED CIRCUIT BOARD, DUS-92

DUS-147 BOARD

1-622-261-11 o PRINTED CIRCUIT BOARD, DUS-147

DUS-177 BOARD

1-622-715-11 o PRINTED CIRCUIT BOARD, DUS-177

DUS-178 BOARD

1-622-716-11 o PRINTED CIRCUIT BOARD, DUS-178

EX-127 BOARD

A-6729-494-A s MOUNTED CIRCUIT BOARD, EX-127

|     |              |   |                    |
|-----|--------------|---|--------------------|
| CN1 | 1-506-747-21 | o | PIN, DIN (DIP) 64P |
| CN2 | 1-563-340-21 | o | HOUSING, (DIP) 64P |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

EX-128 BOARD

A-6729-495-A s MOUNTED CIRCUIT BOARD, EX-128

CN1 1-506-747-21 o PIN, DIN (DIP) 64P  
 CN2 1-563-340-21 o HOUSING, (DIP) 64P  
 CN3 1-506-747-21 o PIN, DIN (DIP) 64P  
 CN4 1-563-340-21 o HOUSING, (DIP) 64P

HN-80 BOARD

1-622-725-11 o PRINTED CIRCUIT BOARD, HN-80

C1 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C2 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C3 1-161-379-00 s CERAMIC 0.01 30% 16V

CN227 1-566-508-11 o PLUG, (PCB-PCB) 20P  
 CN228 1-566-508-11 o PLUG, (PCB-PCB) 20P  
 CN651 1-506-813-11 o BOARD IN CONNECTOR, 4P  
 CN652 1-506-819-11 o BOARD IN CONNECTOR, 10P  
 CN654 1-506-812-11 o BOARD IN CONNECTOR, 3P

CN655 1-506-814-11 o BOARD IN CONNECTOR, 5P  
 CN658 1-506-814-11 o BOARD IN CONNECTOR, 5P

D1 8-719-200-02 s 10E-2  
 D2 8-719-911-19 s 1SS119  
 D3 8-719-911-19 s 1SS119  
 D5 8-719-200-02 s 10E-2  
 D6 8-719-200-02 s 10E-2

IC1 8-759-600-24 s M54543L(MITSUBISHI)

PS1 1-532-686-00 s LINK,

HN-83 BOARD

1-622-719-11 o PRINTED CIRCUIT BOARD, HN-83

HN-84 BOARD

1-622-726-11 o PRINTED CIRCUIT BOARD, HN-84

Ref No. Parts No. SP Description

HP-28 BOARD

1-622-730-11 o PRINTED CIRCUIT BOARD, HP-28

C21 1-161-379-00 s CERAMIC 0.01 30% 16V

KY-101 BOARD

This board includes the DP-62 board.

A-6717-459-A o MOUNTED CIRCUIT BOARD, KY-101

BT1 1-528-229-11 o BATTERY, LITHIUM (CR-2450)

C2 1-162-210-31 s CERAMIC 30PF 5% 50V  
 C3 1-162-210-31 s CERAMIC 30PF 5% 50V  
 C8 1-125-443-11 s DOUBLE LAYERS 0.047F 5.5V  
 C9 1-124-245-00 s ELECT 4.7 20% 16V  
 C10 1-161-379-00 s CERAMIC 0.01 30% 16V

C12 1-162-210-31 s CERAMIC 30PF 5% 50V  
 C13 1-162-210-31 s CERAMIC 30PF 5% 50V  
 C17 1-124-245-00 s ELECT 4.7 20% 16V  
 C101 1-131-346-00 s TANTALUM 0.68 10% 35V  
 C102 1-131-346-00 s TANTALUM 0.68 10% 35V

C103 1-131-346-00 s TANTALUM 0.68 10% 35V  
 C104 1-131-346-00 s TANTALUM 0.68 10% 35V  
 C105 1-131-346-00 s TANTALUM 0.68 10% 35V  
 C106 1-131-346-00 s TANTALUM 0.68 10% 35V  
 C107 1-131-346-00 s TANTALUM 0.68 10% 35V

C108 1-131-346-00 s TANTALUM 0.68 10% 35V  
 C109 1-131-346-00 s TANTALUM 0.68 10% 35V

CN1 1-506-696-11 o HEADER 10P  
 CN3 1-557-237-11 o WIRE, FLAT TYPE 23P  
 (KY-101 to DP-62)

D1 8-719-911-19 s 1SS119  
 D2 8-719-911-19 s 1SS119  
 D3 8-719-911-19 s 1SS119  
 D4 8-719-911-19 s 1SS119  
 D5 8-719-911-19 s 1SS119

D6 8-719-911-19 s 1SS119  
 D7 8-719-911-19 s 1SS119  
 D8 8-719-911-19 s 1SS119  
 D9 8-719-911-19 s 1SS119  
 D10 8-719-911-19 s 1SS119

D11 8-719-911-19 s 1SS119  
 D12 8-719-911-19 s 1SS119  
 D13 8-719-911-19 s 1SS119  
 D14 8-719-911-19 s 1SS119  
 D15 8-719-911-19 s 1SS119

Parts that are not listed in the "reference number order list"  
 are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No. | SP | Description |
|---------|-----------|----|-------------|
|---------|-----------|----|-------------|

|     |              |   |        |
|-----|--------------|---|--------|
| D16 | 8-719-911-19 | s | 1SS119 |
| D17 | 8-719-911-19 | s | 1SS119 |
| D18 | 8-719-911-19 | s | 1SS119 |
| D19 | 8-719-911-19 | s | 1SS119 |
| D20 | 8-719-911-19 | s | 1SS119 |

|     |              |   |        |
|-----|--------------|---|--------|
| D21 | 8-719-911-19 | s | 1SS119 |
| D22 | 8-719-911-19 | s | 1SS119 |
| D23 | 8-719-911-19 | s | 1SS119 |
| D24 | 8-719-911-19 | s | 1SS119 |
| D25 | 8-719-911-19 | s | 1SS119 |

|     |              |   |         |
|-----|--------------|---|---------|
| D26 | 8-719-911-19 | s | 1SS119  |
| D27 | 8-719-911-19 | s | 1SS119  |
| D28 | 8-719-911-19 | s | 1SS119  |
| D29 | 8-719-904-55 | s | GL-5HD5 |
| D30 | 8-719-904-55 | s | GL-5HD5 |

|     |              |   |         |
|-----|--------------|---|---------|
| D31 | 8-719-904-55 | s | GL-5HD5 |
| D32 | 8-719-904-55 | s | GL-5HD5 |
| D33 | 8-719-904-55 | s | GL-5HD5 |
| D34 | 8-719-904-55 | s | GL-5HD5 |
| D35 | 8-719-904-55 | s | GL-5HD5 |

|     |              |   |         |
|-----|--------------|---|---------|
| D36 | 8-719-904-55 | s | GL-5HD5 |
| D37 | 8-719-904-55 | s | GL-5HD5 |
| D38 | 8-719-904-55 | s | GL-5HD5 |
| D39 | 8-719-800-86 | s | TLG255  |
| D40 | 8-719-800-86 | s | TLG255  |

|     |              |   |         |
|-----|--------------|---|---------|
| D41 | 8-719-904-55 | s | GL-5HD5 |
| D42 | 8-719-904-55 | s | GL-5HD5 |
| D43 | 8-719-904-55 | s | GL-5HD5 |
| D44 | 8-719-904-55 | s | GL-5HD5 |
| D45 | 8-719-911-19 | s | 1SS119  |

|     |              |   |        |
|-----|--------------|---|--------|
| D46 | 8-719-911-19 | s | 1SS119 |
| D48 | 8-719-200-02 | s | 10E-2  |
| D49 | 8-719-911-19 | s | 1SS119 |
| D50 | 8-719-200-02 | s | 10E-2  |
| D51 | 8-719-911-19 | s | 1SS119 |

|      |              |   |          |
|------|--------------|---|----------|
| D52  | 8-719-911-19 | s | 1SS119   |
| D53  | 8-719-802-11 | s | TLUG154  |
| D54  | 8-719-911-19 | s | 1SS119   |
| D55  | 8-719-911-19 | s | 1SS119   |
| D201 | 8-719-942-19 | s | LB-402VK |

|      |              |   |          |
|------|--------------|---|----------|
| D202 | 8-719-942-19 | s | LB-402VK |
| D203 | 8-719-942-19 | s | LB-402VK |
| D204 | 8-719-942-19 | s | LB-402VK |

|     |              |   |                           |
|-----|--------------|---|---------------------------|
| IC1 | 8-759-605-23 | s | M50747H-601SP(MITSUBISHI) |
| IC2 | 8-759-645-16 | s | M54516P(MITSUBISHI)       |
| IC3 | 8-759-645-16 | s | M54516P(MITSUBISHI)       |
| IC4 | 8-759-645-16 | s | M54516P(MITSUBISHI)       |
| IC5 | 8-759-600-68 | s | M54562P(MITSUBISHI)       |

|       |              |   |                        |
|-------|--------------|---|------------------------|
| IC6   | 8-759-171-05 | s | UPC7805H(NEC)          |
| IC7   | 8-759-937-29 | s | MB88201H-539N(FUJITSU) |
| IC101 | 8-759-600-61 | s | M54529AP(MITSUBISHI)   |
| IC102 | 8-759-600-61 | s | M54529AP(MITSUBISHI)   |

| Ref No. | Parts No. | SP | Description |
|---------|-----------|----|-------------|
|---------|-----------|----|-------------|

|    |              |   |           |
|----|--------------|---|-----------|
| Q1 | 8-729-900-67 | s | DTA124XS  |
| Q2 | 8-729-900-67 | s | DTA124XS  |
| Q3 | 8-729-900-67 | s | DTA124XS  |
| Q4 | 8-729-900-67 | s | DTA124XS  |
| Q5 | 8-729-275-42 | s | 2SC2754-Y |

|     |              |   |           |
|-----|--------------|---|-----------|
| Q6  | 8-729-275-42 | s | 2SC2754-Y |
| Q8  | 8-729-117-54 | s | 2SA1175   |
| Q9  | 8-729-117-54 | s | 2SA1175   |
| Q10 | 8-729-117-54 | s | 2SA1175   |
| Q11 | 8-729-117-54 | s | 2SA1175   |

|      |              |   |          |
|------|--------------|---|----------|
| Q12  | 8-729-117-54 | s | 2SA1175  |
| Q13  | 8-729-117-54 | s | 2SA1175  |
| Q14  | 8-729-117-54 | s | 2SA1175  |
| Q15  | 8-729-900-89 | s | DTC144ES |
| Q101 | 8-729-117-54 | s | 2SA1175  |

|      |              |   |         |
|------|--------------|---|---------|
| Q102 | 8-729-117-54 | s | 2SA1175 |
| Q103 | 8-729-117-54 | s | 2SA1175 |
| Q104 | 8-729-117-54 | s | 2SA1175 |
| Q105 | 8-729-117-54 | s | 2SA1175 |
| Q106 | 8-729-117-54 | s | 2SA1175 |

|      |              |   |         |
|------|--------------|---|---------|
| Q107 | 8-729-117-54 | s | 2SA1175 |
| Q108 | 8-729-117-54 | s | 2SA1175 |
| Q109 | 8-729-117-54 | s | 2SA1175 |

|    |              |   |                       |
|----|--------------|---|-----------------------|
| S1 | 1-552-539-00 | s | KEY BOARD "OUT"       |
| S2 | 1-552-539-00 | s | KEY BOARD "IN"        |
| S3 | 1-552-539-00 | s | KEY BOARD "REVIEW"    |
| S4 | 1-552-539-00 | s | KEY BOARD "AUTO EDIT" |
| S5 | 1-552-539-00 | s | KEY BOARD "PREVIEW"   |

|     |              |   |                      |
|-----|--------------|---|----------------------|
| S6  | 1-552-539-00 | s | KEY BOARD "ASSEMBLE" |
| S7  | 1-552-539-00 | s | KEY BOARD "VIDEO"    |
| S8  | 1-552-539-00 | s | KEY BOARD "AU CH-1"  |
| S9  | 1-552-539-00 | s | KEY BOARD "AU CH-2"  |
| S10 | 1-554-039-11 | s | PUSH "STANDBY"       |

|     |              |   |                    |
|-----|--------------|---|--------------------|
| S11 | 1-554-039-11 | s | PUSH "PREROLL"     |
| S12 | 1-554-040-21 | s | PUSH "REC"         |
| S13 | 1-554-039-11 | s | PUSH "EDIT"        |
| S14 | 1-552-539-00 | s | KEY BOARD "SEARCH" |
| S15 | 1-571-169-11 | s | TACTIL "EJECT"     |

|     |              |   |                     |
|-----|--------------|---|---------------------|
| S16 | 1-554-039-51 | s | PUSH "REW"          |
| S17 | 1-554-039-21 | s | PUSH "PLAY"         |
| S18 | 1-554-039-41 | s | PUSH "F FWD"        |
| S19 | 1-571-169-21 | s | TACTIL "STOP"       |
| S20 | 1-516-994-00 | s | LEVER SLIDE "PB/EE" |

|     |              |   |                      |
|-----|--------------|---|----------------------|
| S23 | 1-552-539-00 | s | KEY BOARD "PLAYER"   |
| S24 | 1-552-539-00 | s | KEY BOARD "RECORDER" |
| S25 | 1-552-539-00 | s | KEY BOARD "ENTRY"    |
| S26 | 1-552-539-00 | s | KEY BOARD "TRIM(-)"  |
| S27 | 1-552-539-00 | s | KEY BOARD "TRIM(+)"  |

|      |              |   |                    |
|------|--------------|---|--------------------|
| S28  | 1-516-995-00 | s | LEVER SLIDE "DATA" |
| S29  | 1-552-539-00 | s | KEY BOARD "SET"    |
| S201 | 1-552-539-00 | s | KEY BOARD "LAP"    |
| S202 | 1-552-539-00 | s | KEY BOARD "RESET"  |

|    |              |   |                           |
|----|--------------|---|---------------------------|
| X1 | 1-567-869-11 | s | VIBRATOR, CERAMIC 9.83MHz |
| X2 | 1-567-192-11 | s | OSCILLATOR, CERAMIC 4MHz  |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

LE-53 BOARD

1-622-720-11 o PRINTED CIRCUIT BOARD, LE-53

D1 8-719-930-20 o HLMP-1302

LE-54 BOARD

1-622-717-11 o PRINTED CIRCUIT BOARD, LE-54

D1 8-719-930-20 s HLMP-1302

LM-13 BOARD

1-618-600-11 o PRINTED CIRCUIT BOARD, LM-13

C1 1-130-471-00 s PE TEREPHTHALATE 0.001  
 C2 1-130-471-00 s PE TEREPHTHALATE 0.001

LP-41 BOARD

1-623-101-11 o PRINTED CIRCUIT BOARD, LP-41

D1 8-719-800-89 s TLY255  
 D2 8-719-800-89 s TLY255  
 D3 8-719-800-89 s TLY255

R1 1-247-706-11 s CARBON 330 5% 1/4W  
 R2 1-247-706-11 s CARBON 330 5% 1/4W  
 R3 1-247-706-11 s CARBON 330 5% 1/4W

MB-127 BOARD

This board includes the MB-139 board.

A-6729-502-A o MOUNTED CIRCUIT BOARD, MB-127

CN101 1-563-336-21 o HOUSING, (DIP) 64P  
 CN102 1-563-336-21 o HOUSING, (DIP) 64P  
 CN103 1-563-336-21 o HOUSING, (DIP) 64P  
 CN104 1-563-336-21 o HOUSING, (DIP) 64P  
 CN105 1-563-336-21 o HOUSING, (DIP) 64P

Ref No. Parts No. SP Description

CN106 1-563-336-21 o HOUSING, (DIP) 64P  
 CN107 1-563-336-21 o HOUSING, (DIP) 64P  
 CN108 1-563-336-21 o HOUSING, (DIP) 64P  
 CN109 1-563-336-21 o HOUSING, (DIP) 64P  
 CN110 1-566-313-11 o PIN, 7P  
 1-562-883-11 o HOUSING, 7P

CN111 1-564-607-11 o PIN, 6P  
 1-562-287-11 o HOUSING, 6P  
 CN220 1-506-819-11 o BOARD IN CONNECTOR, 10P  
 CN221 1-506-819-11 o BOARD IN CONNECTOR, 10P  
 CN222 1-506-819-11 o BOARD IN CONNECTOR, 10P  
 CN223 1-506-821-11 o BOARD IN CONNECTOR, 12P

CN224 1-506-821-11 o BOARD IN CONNECTOR, 12P  
 CN225 1-506-819-11 o BOARD IN CONNECTOR, 10P  
 CN226 1-506-814-11 o BOARD IN CONNECTOR, 5P  
 CN227 1-563-994-11 o SOCKET, (PCB-PCB)20P  
 CN228 1-563-994-11 o SOCKET, (PCB-PCB)20P

CN231 1-563-994-11 o SOCKET, (PCB-PCB)20P  
 CN232 1-563-994-11 o SOCKET, (PCB-PCB)20P  
 CN233 1-563-994-11 o SOCKET, (PCB-PCB)20P

MB-139 BOARD

All of the component parts on the MB-139 board are supplied together when you order MB-127 board.

1-622-714-11 o PRINTED CIRCUIT BOARD, MB-139

CN230 1-563-336-21 o HOUSING, (DIP) 64P  
 CN241 1-566-508-11 o PLUG, (PCB-PCB) 20P  
 CN242 1-566-508-11 o PLUG, (PCB-PCB) 20P  
 CN243 1-566-508-11 o PLUG, (PCB-PCB) 20P

MD-44 BOARD

A-6711-826-A o MOUNTED CIRCUIT BOARD, MD-44

C5 1-161-494-00 s CERAMIC 0.022 30% 25V  
 C7 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C13 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C16 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C19 1-161-494-00 s CERAMIC 0.022 30% 25V

C21 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C22 1-124-445-00 s ELECT 100 20% 16V  
 C24 1-123-617-00 s ELECT 10 20% 16V  
 C25 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C26 1-161-379-00 s CERAMIC 0.01 30% 16V

C27 1-123-617-00 s ELECT 10 20% 16V  
 C28 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C34 1-123-661-00 s ELECT 100 20% 6.3V  
 C38 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C39 1-161-379-00 s CERAMIC 0.01 30% 16V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description           | Ref No. | Parts No.    | SP | Description           |
|---------|--------------|----|-----------------------|---------|--------------|----|-----------------------|
| C41     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C176    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C43     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C177    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C44     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C179    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C45     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C182    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C46     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C183    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C47     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C184    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C50     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C185    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C57     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C186    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C59     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C188    | 1-124-245-00 | s  | ELECT 4.7 20% 25V     |
| C60     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C189    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C62     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C191    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C63     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C193    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C65     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C195    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C66     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C197    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C67     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C198    | 1-123-611-00 | s  | ELECT 1 20% 50V       |
| C68     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C199    | 1-124-462-00 | s  | ELECT 10 20% 10V      |
| C71     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C201    | 1-162-215-31 | s  | CERAMIC 47PF 5% 50V   |
| C72     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C202    | 1-123-617-00 | s  | ELECT 10 20% 16V      |
| C73     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C204    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C74     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C205    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C77     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C206    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C78     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C210    | 1-124-462-00 | s  | ELECT 10 20% 10V      |
| C79     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C214    | 1-123-617-00 | s  | ELECT 10 20% 16V      |
| C80     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C216    | 1-162-728-11 | s  | CERAMIC 560PF 1% 50V  |
| C81     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C217    | 1-123-617-00 | s  | ELECT 10 20% 16V      |
| C82     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C218    | 1-123-617-00 | s  | ELECT 10 20% 16V      |
| C83     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C220    | 1-124-638-11 | s  | ELECT 22 20% 10V      |
| C85     | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C221    | 1-123-617-00 | s  | ELECT 10 20% 16V      |
| C87     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C223    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C88     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C227    | 1-131-344-00 | s  | TANTALUM 0.33 10% 35V |
| C89     | 1-123-617-00 | s  | ELECT 10 20% 16V      | C231    | 1-131-351-00 | s  | TANTALUM 4.7 10% 35V  |
| C90     | 1-124-224-00 | s  | ELECT 47 20% 6.3V     | C234    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C91     | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C235    | 1-123-617-00 | s  | ELECT 10 20% 16V      |
| C95     | 1-124-224-00 | s  | ELECT 47 20% 6.3V     | C236    | 1-123-617-00 | s  | ELECT 10 20% 16V      |
| C97     | 1-124-224-00 | s  | ELECT 47 20% 6.3V     | C238    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C98     | 1-124-445-00 | s  | ELECT 100 20% 16V     | C240    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C101    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C241    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C103    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C243    | 1-162-732-11 | s  | CERAMIC 820PF 1% 50V  |
| C104    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C244    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C107    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C245    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C108    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C246    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C109    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C247    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C110    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C249    | 1-101-890-00 | s  | CERAMIC 75PF 5% 50V   |
| C111    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C250    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C112    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C251    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C118    | 1-162-732-11 | s  | CERAMIC 820PF 1% 50V  | C253    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C131    | 1-123-617-00 | s  | ELECT 10 20% 16V      | C256    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C138    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C257    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C140    | 1-124-462-00 | s  | ELECT 10 20% 10V      | C260    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C143    | 1-123-617-00 | s  | ELECT 10 20% 16V      | C261    | 1-131-355-00 | s  | TANTALUM 2.2 10% 25V  |
| C144    | 1-123-617-00 | s  | ELECT 10 20% 16V      | C262    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C148    | 1-162-726-11 | s  | CERAMIC 470PF 1% 50V  | C264    | 1-131-355-00 | s  | TANTALUM 2.2 10% 25V  |
| C155    | 1-131-374-00 | s  | TANTALUM 33 10% 16V   | C267    | 1-109-546-00 | s  | MICA 300PF 5% 50V     |
| C156    | 1-131-356-00 | s  | TANTALUM 3.3 10% 25V  | C268    | 1-109-548-00 | s  | MICA 360PF 5% 50V     |
| C157    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C269    | 1-124-462-00 | s  | ELECT 10 20% 10V      |
| C161    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C270    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C165    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C275    | 1-123-617-00 | s  | ELECT 10 20% 16V      |
| C170    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C278    | 1-123-617-00 | s  | ELECT 10 20% 16V      |
| C172    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C280    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |
| C175    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  | C282    | 1-161-379-00 | s  | CERAMIC 0.01 30% 16V  |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

C283 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C285 1-161-494-00 s CERAMIC 0.022 30% 25V  
 C287 1-131-345-00 s TANTALUM 0.47 10% 35V  
 C290 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C291 1-123-617-00 s ELECT 10 20% 16V

C292 1-123-617-00 s ELECT 10 20% 16V  
 C298 1-161-494-00 s CERAMIC 0.022 30% 25V  
 C299 1-161-494-00 s CERAMIC 0.022 30% 25V  
 C300 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C302 1-161-379-00 s CERAMIC 0.01 30% 16V

C303 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C304 1-161-379-00 s CERAMIC 0.01 30% 16V  
 C305 1-161-494-00 s CERAMIC 0.022 30% 25V  
 C307 1-124-462-00 s ELECT 10 20% 10V  
 C308 1-124-462-00 s ELECT 10 20% 10V

C309 1-124-462-00 s ELECT 10 20% 10V  
 C321 1-161-494-00 s CERAMIC 0.022 30% 25V  
 C322 1-161-494-00 s CERAMIC 0.022 30% 25V  
 C325 1-161-494-00 s CERAMIC 0.022 30% 25V  
 C329 1-161-494-00 s CERAMIC 0.022 30% 25V

C334 1-162-728-11 s CERAMIC 560PF 1% 50V  
 C335 1-161-494-00 s CERAMIC 0.022 30% 25V  
 C337 1-124-638-11 s ELECT 22 20% 10V  
 C338 1-123-617-00 s ELECT 10 20% 16V  
 C339 1-123-617-00 s ELECT 10 20% 16V

C340 1-123-617-00 s ELECT 10 20% 16V  
 C341 1-124-245-00 s ELECT 4.7 20% 25V  
 C342 1-124-445-00 s ELECT 100 20% 16V

CV1 1-141-246-00 s CAP, TRIMMER

D4 8-719-104-10 s 1SS99  
 D5 8-719-104-10 s 1SS99  
 D6 8-719-911-19 s 1SS119  
 D7 8-719-911-19 s 1SS119  
 D8 8-719-911-19 s 1SS119

D9 8-719-911-19 s 1SS119  
 D10 8-719-911-19 s 1SS119  
 D11 8-719-911-19 s 1SS119  
 D13 8-719-911-19 s 1SS119  
 D14 8-719-911-19 s 1SS119

D15 8-719-911-19 s 1SS119  
 D16 8-719-911-19 s 1SS119  
 D17 8-719-911-19 s 1SS119  
 D18 8-719-915-43 s FC54M  
 D19 8-719-911-19 s 1SS119

D20 8-719-911-19 s 1SS119  
 D21 8-719-911-19 s 1SS119  
 D22 8-719-911-19 s 1SS119  
 D23 8-719-911-19 s 1SS119  
 D25 8-719-911-19 s 1SS119

D26 8-719-100-23 s RD4.3E-B2

Ref No. Parts No. SP Description

DL1 1-415-348-00 s 57ns  
 DL2 1-415-348-00 s 57ns  
 DL3 1-415-348-00 s 57ns  
 DL4 1-415-551-11 s 350ns  
 DL5 1-415-545-11 s 450ns

DL201 1-415-452-21 s 810ns  
 DL401 1-415-402-11 s 300ns

FL1 1-235-757-11 s LOW PASS  
 FL2 1-235-757-11 s LOW PASS  
 FL3 1-235-757-11 s LOW PASS  
 FL4 1-235-617-11 s LOW PASS  
 FL5 1-527-307-XX s CERAMIC

FL6 1-527-307-XX s CERAMIC  
 FL201 1-236-030-11 s LOW PASS  
 FL202 1-235-615-21 s LPF (REC-Y, SP-2)  
 FL203 1-231-580-21 s HIGH PASS  
 FL204 1-235-613-11 s HIGH PASS

FL401 1-235-616-21 s LPF (REC-C)  
 FL402 1-235-619-11 s BAND PASS

IC1 8-759-240-53 s TC4053BP(TOSHIBA)  
 IC2 8-759-400-06 s AN608P(MATSUSHITA)  
 IC3 8-752-320-32 s CXL5001P(SONY)  
 IC4 8-759-402-33 s AN607P(MATSUSHITA)  
 IC5 8-752-320-32 s CXL5001P(SONY)

IC6 8-759-400-06 s AN608P(MATSUSHITA)  
 IC7 8-752-201-30 s CX22013(SONY)  
 IC8 8-752-030-30 s CXA1020P(SONY)  
 IC9 8-759-969-13 s SN16913P(TI)  
 IC10 8-759-602-80 s M5215L(MITSUBISHI)

IC11 8-752-201-30 s CX22013(SONY)  
 IC12 8-749-938-90 s BX389(SONY)  
 IC13 8-759-602-80 s M5215L(MITSUBISHI)  
 IC14 8-759-708-09 s NJM78L09A(JRC)  
 IC15 8-759-729-03 s NJM2903D(JRC)

IC16 8-759-145-58 s UPC4558C(JRC)  
 IC17 8-759-145-58 s UPC4558C(JRC)  
 IC201 8-752-006-00 s CX20060(SONY)  
 IC202 8-752-006-00 s CX20060(SONY)  
 IC203 8-759-200-60 s TA7060AP(TOSHIBA)

IC204 8-751-310-00 s CX-131A(SONY)  
 IC205 8-741-125-70 s BX1257(SONY)  
 IC206 8-741-124-60 s BX1246(SONY)  
 IC207 8-752-006-00 s CX20060(SONY)  
 IC401 8-751-880-00 s CX-188(SONY)

IC402 8-759-908-59 s CX-859(SONY)  
 IC404 8-752-006-00 s CX20060(SONY)  
 IC405 8-741-124-70 s BX1247(SONY)  
 IC406 8-752-006-00 s CX20060(SONY)

L1 1-410-482-31 s MICRO 100  
 L2 1-410-482-31 s MICRO 100  
 L5 1-410-482-31 s MICRO 100  
 L6 1-410-482-31 s MICRO 100  
 L7 1-410-482-31 s MICRO 100

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description | Ref No. | Parts No.    | SP | Description |
|---------|--------------|----|-------------|---------|--------------|----|-------------|
| L8      | 1-410-471-11 | s  | MICRO 12    | Q6      | 8-729-275-42 | s  | 2SC2754-Y   |
| L9      | 1-410-482-31 | s  | MICRO 100   | Q7      | 8-729-603-50 | s  | 2SC403SP    |
| L10     | 1-410-471-11 | s  | MICRO 12    | Q8      | 8-729-603-50 | s  | 2SC403SP    |
| L11     | 1-410-470-11 | s  | MICRO 10    | Q9      | 8-729-603-50 | s  | 2SC403SP    |
| L12     | 1-410-482-31 | s  | MICRO 100   | Q10     | 8-729-603-50 | s  | 2SC403SP    |
| L13     | 1-410-476-11 | s  | MICRO 33    | Q11     | 8-729-603-50 | s  | 2SC403SP    |
| L14     | 1-410-482-31 | s  | MICRO 100   | Q12     | 8-729-603-50 | s  | 2SC403SP    |
| L15     | 1-410-482-31 | s  | MICRO 100   | Q13     | 8-729-611-53 | s  | 2SA1115-F   |
| L17     | 1-410-464-11 | s  | MICRO 3.3   | Q14     | 8-729-603-50 | s  | 2SC403SP    |
| L18     | 1-410-464-11 | s  | MICRO 3.3   | Q15     | 8-729-611-53 | s  | 2SA1115-F   |
| L19     | 1-410-482-31 | s  | MICRO 100   | Q16     | 8-729-603-50 | s  | 2SC403SP    |
| L20     | 1-410-482-31 | s  | MICRO 100   | Q19     | 8-729-603-50 | s  | 2SC403SP    |
| L21     | 1-410-482-31 | s  | MICRO 100   | Q20     | 8-729-611-53 | s  | 2SA1115-F   |
| L23     | 1-410-470-11 | s  | MICRO 10    | Q21     | 8-729-603-50 | s  | 2SC403SP    |
| L25     | 1-410-482-31 | s  | MICRO 100   | Q22     | 8-729-611-53 | s  | 2SA1115-F   |
| L27     | 1-410-483-21 | s  | MICRO 120   | Q23     | 8-729-603-50 | s  | 2SC403SP    |
| L28     | 1-407-504-00 | s  | MICRO 10mH  | Q24     | 8-729-603-50 | s  | 2SC403SP    |
| L31     | 1-410-482-31 | s  | MICRO 100   | Q25     | 8-729-603-50 | s  | 2SC403SP    |
| L32     | 1-410-482-31 | s  | MICRO 100   | Q27     | 8-729-603-50 | s  | 2SC403SP    |
| L33     | 1-410-482-31 | s  | MICRO 100   | Q30     | 8-729-611-53 | s  | 2SA1115-F   |
| L34     | 1-410-482-31 | s  | MICRO 100   | Q31     | 8-729-603-50 | s  | 2SC403SP    |
| L35     | 1-410-482-31 | s  | MICRO 100   | Q32     | 8-729-201-05 | s  | 2SC2878-B   |
| L39     | 1-410-483-21 | s  | MICRO 120   | Q33     | 8-729-603-50 | s  | 2SC403SP    |
| L40     | 1-410-482-31 | s  | MICRO 100   | Q34     | 8-729-603-50 | s  | 2SC403SP    |
| L41     | 1-410-482-31 | s  | MICRO 100   | Q35     | 8-729-603-50 | s  | 2SC403SP    |
| L42     | 1-410-482-31 | s  | MICRO 100   | Q36     | 8-729-611-53 | s  | 2SA1115-F   |
| L44     | 1-410-482-31 | s  | MICRO 100   | Q37     | 8-729-611-53 | s  | 2SA1115-F   |
| L45     | 1-410-482-31 | s  | MICRO 100   | Q38     | 8-729-603-50 | s  | 2SC403SP    |
| L47     | 1-410-482-31 | s  | MICRO 100   | Q39     | 8-729-603-50 | s  | 2SC403SP    |
| L48     | 1-410-482-31 | s  | MICRO 100   | Q40     | 8-729-603-50 | s  | 2SC403SP    |
| L49     | 1-410-478-11 | s  | MICRO 47    | Q41     | 8-729-603-50 | s  | 2SC403SP    |
| L50     | 1-410-482-31 | s  | MICRO 100   | Q42     | 8-729-603-50 | s  | 2SC403SP    |
| L51     | 1-410-071-11 | s  | MICRO 10mH  | Q43     | 8-729-603-50 | s  | 2SC403SP    |
| L53     | 1-410-482-31 | s  | MICRO 100   | Q45     | 8-729-603-50 | s  | 2SC403SP    |
| L54     | 1-410-482-31 | s  | MICRO 100   | Q46     | 8-729-603-50 | s  | 2SC403SP    |
| L55     | 1-410-478-11 | s  | MICRO 47    | Q47     | 8-729-603-50 | s  | 2SC403SP    |
| L56     | 1-410-482-31 | s  | MICRO 100   | Q48     | 8-729-603-50 | s  | 2SC403SP    |
| L57     | 1-410-482-31 | s  | MICRO 100   | Q49     | 8-729-603-50 | s  | 2SC403SP    |
| L58     | 1-410-482-31 | s  | MICRO 100   | Q50     | 8-729-603-50 | s  | 2SC403SP    |
| L60     | 1-410-470-11 | s  | MICRO 10    | Q51     | 8-729-603-50 | s  | 2SC403SP    |
| L61     | 1-410-482-31 | s  | MICRO 100   | Q52     | 8-729-603-50 | s  | 2SC403SP    |
| L62     | 1-410-482-31 | s  | MICRO 100   | Q53     | 8-729-603-50 | s  | 2SC403SP    |
| L63     | 1-410-482-31 | s  | MICRO 100   | Q54     | 8-729-603-50 | s  | 2SC403SP    |
| L64     | 1-410-482-31 | s  | MICRO 100   | Q55     | 8-729-201-05 | s  | 2SC2878-B   |
| L65     | 1-410-482-31 | s  | MICRO 100   | Q56     | 8-729-603-50 | s  | 2SC403SP    |
| L66     | 1-410-482-31 | s  | MICRO 100   | Q57     | 8-729-201-05 | s  | 2SC2878-B   |
| L69     | 1-410-473-11 | s  | MICRO 18    | Q58     | 8-729-201-05 | s  | 2SC2878-B   |
| L71     | 1-410-482-31 | s  | MICRO 100   | Q60     | 8-729-603-50 | s  | 2SC403SP    |
| LV1     | 1-407-566-00 | s  | VAR 3.3     | Q61     | 8-729-603-50 | s  | 2SC403SP    |
| Q1      | 8-729-603-50 | s  | 2SC403SP    | Q62     | 8-729-603-50 | s  | 2SC403SP    |
| Q2      | 8-729-105-72 | s  | 2SK523-L1   | Q63     | 8-729-603-50 | s  | 2SC403SP    |
| Q3      | 8-729-201-05 | s  | 2SC2878-B   | Q64     | 8-729-603-50 | s  | 2SC403SP    |
| Q4      | 8-729-603-50 | s  | 2SC403SP    | Q65     | 8-729-603-50 | s  | 2SC403SP    |
| Q5      | 8-729-275-42 | s  | 2SC2754-Y   | Q69     | 8-729-900-89 | s  | DTC144ES    |
|         |              |    |             | Q70     | 8-729-900-89 | s  | DTC144ES    |
|         |              |    |             | Q71     | 8-729-113-34 | s  | 2SB733-5    |
|         |              |    |             | Q72     | 8-729-901-41 | s  | 2SC1740S-R  |
|         |              |    |             | Q75     | 8-729-901-41 | s  | 2SC1740S-R  |
|         |              |    |             | Q76     | 8-729-603-50 | s  | 2SC403SP    |
|         |              |    |             | Q77     | 8-729-201-05 | s  | 2SC2878-B   |

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Ref No. Parts No. SP Description

Q78 8-729-901-41 s 2SC1740S-R  
 Q79 8-729-611-53 s 2SA1115-F  
 Q80 8-729-603-50 s 2SC403SP  
 Q82 8-729-603-50 s 2SC403SP  
 Q83 8-729-603-50 s 2SC403SP

Q84 8-729-611-53 s 2SA1115-F  
 Q85 8-729-603-50 s 2SC403SP  
 Q86 8-729-603-50 s 2SC403SP  
 Q87 8-729-603-50 s 2SC403SP  
 Q88 8-729-603-50 s 2SC403SP

Q89 8-729-603-50 s 2SC403SP  
 Q93 8-729-611-53 s 2SA1115-F  
 Q94 8-729-611-53 s 2SA1115-F  
 Q95 8-729-603-50 s 2SC403SP  
 Q96 8-729-603-50 s 2SC403SP

Q97 8-729-603-50 s 2SC403SP  
 Q98 8-729-603-50 s 2SC403SP  
 Q99 8-729-611-53 s 2SA1115-F  
 Q100 8-729-603-50 s 2SC403SP  
 Q104 8-729-603-50 s 2SC403SP

Q105 8-729-603-50 s 2SC403SP  
 Q106 8-729-201-05 s 2SC2878-B  
 Q107 8-729-603-50 s 2SC403SP  
 Q108 8-729-611-53 s 2SA1115-F  
 Q109 8-729-611-53 s 2SA1115-F

Q110 8-729-603-50 s 2SC403SP  
 Q111 8-729-611-53 s 2SA1115-F  
 Q112 8-729-603-50 s 2SC403SP  
 Q113 8-729-603-50 s 2SC403SP  
 Q114 8-729-603-50 s 2SC403SP

Q115 8-729-201-05 s 2SC2878-B  
 Q116 8-729-201-05 s 2SC2878-B  
 Q117 8-729-201-05 s 2SC2878-B  
 Q118 8-729-201-05 s 2SC2878-B  
 Q119 8-729-603-50 s 2SC403SP

Q120 8-729-611-53 s 2SA1115-F  
 Q121 8-729-603-50 s 2SC403SP  
 Q122 8-729-603-50 s 2SC403SP

R208 1-247-826-00 s CARBON 620 5% 1/6W  
 R227 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R241 1-249-404-00 s CARBON 82 5% 1/6W  
 R296 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R298 1-247-849-00 s CARBON 5.6k 5% 1/6W

R307 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R318 1-247-887-00 s CARBON 220k 5% 1/6W  
 R395 1-247-849-00 s CARBON 5.6k 5% 1/6W

RV1 1-228-995-00 s VAR, CARBON 22k  
 RV2 1-228-991-00 s VAR, CARBON 2.2k  
 RV3 1-228-993-00 s VAR, CARBON 4.7k  
 RV4 1-228-995-00 s VAR, CARBON 22k  
 RV5 1-228-991-00 s VAR, CARBON 2.2k

RV6 1-228-991-00 s VAR, CARBON 2.2k  
 RV7 1-228-995-00 s VAR, CARBON 22k  
 RV8 1-228-991-00 s VAR, CARBON 2.2k  
 RV9 1-228-991-00 s VAR, CARBON 2.2k  
 RV10 1-230-504-11 s VAR, CARBON 220

Ref No. Parts No. SP Description

RV11 1-230-504-11 s VAR, CARBON 220  
 RV12 1-228-991-00 s VAR, CARBON 2.2k  
 RV13 1-228-991-00 s VAR, CARBON 2.2k  
 RV14 1-228-991-00 s VAR, CARBON 2.2k  
 RV15 1-228-991-00 s VAR, CARBON 2.2k

RV16 1-228-993-00 s VAR, CARBON 4.7k  
 RV17 1-230-682-11 s VAR, CARBON 1M  
 RV18 1-228-990-00 s VAR, CARBON 1k  
 RV19 1-228-993-00 s VAR, CARBON 4.7k  
 RV20 1-228-994-00 s VAR, CARBON 10k

RV21 1-228-996-00 s VAR, CARBON 47k  
 RV22 1-228-990-00 s VAR, CARBON 1k  
 RV23 1-228-991-00 s VAR, CARBON 2.2k  
 RV24 1-228-996-00 s VAR, CARBON 47k  
 RV25 1-228-991-00 s VAR, CARBON 2.2k

RV27 1-228-999-00 s VAR, CARBON 470k  
 RV29 1-228-998-00 s VAR, CARBON 220k  
 RV30 1-228-994-00 s VAR, CARBON 10k  
 RV202 1-228-993-00 s VAR, CARBON 4.7k  
 RV301 1-228-990-00 s VAR, CARBON 1k

RV303 1-228-993-00 s VAR, CARBON 4.7k  
 RV304 1-228-993-00 s VAR, CARBON 4.7k  
 RV305 1-228-993-00 s VAR, CARBON 4.7k

T1 1-425-785-21 s BURST AMP(BAT)

TH1 1-800-200-00 s THERMISTOR S-3K  
 TH3 1-800-200-00 s THERMISTOR S-3K  
 TH4 1-800-200-00 s THERMISTOR S-3K  
 TH5 1-800-200-00 s THERMISTOR S-3K

X1 1-527-536-00 s OSCILLATOR, CRYSTAL 3.579545MHz

MT-28 BOARD

1-622-729-11 o PRINTED CIRCUIT BOARD, MT-28

CN335 1-560-035-00 s PIN, BOARD TO BOARD 5P (MT-28 to VR-48)

CN336 1-560-035-00 s PIN, BOARD TO BOARD 5P (MT-28 to VR-48)

D1 8-719-800-89 s TLY255  
 D2 8-719-800-86 s TLG255  
 D3 8-719-800-89 s TLY255  
 D4 8-719-800-89 s TLY255  
 D5 8-719-800-89 s TLY255

D6 8-719-800-89 s TLY255

R1 1-247-706-11 s CARBON 330 5% 1/4W  
 R1 1-247-706-11 s CARBON 330 5% 1/4W  
 R1 1-247-706-11 s CARBON 330 5% 1/4W

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Ref No. Parts No. SP Description

PD-37 BOARD

A-6717-458-A o MOUNTED CIRCUIT BOARD, PD-37

C2 1-161-379-00 s CERAMIC 0.01 30% 16V  
C3 1-161-379-00 s CERAMIC 0.01 30% 16V  
C4 1-124-259-00 s ELECT 4.7 20% 50V  
C5 1-124-259-00 s ELECT 4.7 20% 50V  
C6 1-124-259-00 s ELECT 4.7 20% 50V

D1 8-719-200-02 s 10E-2  
D2 8-719-911-19 s 1SS119  
D3 8-719-911-19 s 1SS119  
D4 8-719-200-02 s 10E-2  
D5 8-719-200-02 s 10E-2

D6 8-719-200-02 s 10E-2  
D7 8-719-200-02 s 10E-2  
D8 8-719-200-02 s 10E-2  
D9 8-719-200-02 s 10E-2  
D10 8-719-200-02 s 10E-2

D11 8-719-200-02 s 10E-2  
D12 8-719-200-02 s 10E-2  
D13 8-719-200-02 s 10E-2  
D14 8-719-200-02 s 10E-2

IC1 8-759-600-24 s M54543L(MITSUBISHI)

PS1 1-532-686-00 s LINK  
PS2 1-532-685-00 s LINK  
PS3 1-532-685-00 s LINK  
PS4 1-532-685-00 s LINK

Q1 8-729-811-11 s 2SD1111  
Q2 8-729-178-55 s 2SC2785-E  
Q3 8-729-178-55 s 2SC2785-E  
Q4 8-729-199-82 s 2SD998  
Q5 8-729-811-11 s 2SD1111

Q6 8-729-178-55 s 2SC2785-E  
Q7 8-729-889-40 s 2SD894  
Q8 8-729-811-11 s 2SD1111  
Q9 8-729-178-55 s 2SC2785-E  
Q10 8-729-889-40 s 2SD894

PH-5(A) BOARD

1-603-737-00 o PRINTED CIRCUIT BOARD, PH-5(A)

D1 8-719-951-04 s BR5104S

Ref No. Parts No. SP Description

PH-5(B) BOARD

1-603-737-00 o PRINTED CIRCUIT BOARD, PH-5(B)

Q1 8-729-810-21 s SPS102-A

PH-5(C) BOARD

1-603-737-00 o PRINTED CIRCUIT BOARD, PH-5(C)

D1 8-719-951-04 s BR5104S

PTC-26 BOARD

1-622-721-11 o PRINTED CIRCUIT BOARD, PTC-26

Q1 8-729-810-22 s SPS102-A

PTC-28 BOARD

1-622-722-11 o PRINTED CIRCUIT BOARD, PTC-28

1-806-232-11 s MB-1102/S.N

PTC-29 BOARD

1-622-718-11 o PRINTED CIRCUIT BOARD, PTC-29

1-806-232-21 s DETECTOR MB-1102/S.N

PTC-30 BOARD

1-622-260-11 o PRINTED CIRCUIT BOARD, PTC-30

IC1 8-719-939-50 s GP1L52(SHARP)  
IC2 8-719-939-50 s GP1L52(SHARP)  
IC3 8-719-939-50 s GP1L52(SHARP)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

PTC-32 BOARD

1-622-638-11 o PRINTED CIRCUIT BOARD, PTC-32

C1 1-124-234-00 s ELECT 22 20% 10V

IC1 8-719-939-50 s GP1L52(SHARP)  
 IC2 8-719-939-50 s GP1L52(SHARP)  
 IC3 8-719-940-86 s GP1L53(SHARP)  
 IC4 8-719-939-50 s GP1L52(SHARP)  
 IC5 8-759-133-90 s UPC339C(NEC)

PTC-33 BOARD

1-622-258-11 o PRINTED CIRCUIT BOARD, PTC-33

IC1 8-719-940-86 s GP1L53(SHARP)  
 IC2 8-719-940-86 s GP1L53(SHARP)

PTC-34 BOARD

1-622-259-11 o PRINTED CIRCUIT BOARD, PTC-34

IC1 8-719-940-86 s GP1L53(SHARP)

RP-30 BOARD

A-6711-825-A o MOUNTED CIRCUIT BOARD, RP-30

C2 1-124-236-00 s ELECT 47 20% 16V  
 C9 1-124-236-00 s ELECT 47 20% 16V  
 C11 1-124-236-00 s ELECT 47 20% 16V  
 C14 1-124-255-00 s ELECT 1 20% 50V  
 C17 1-124-236-00 s ELECT 47 20% 16V

C20 1-124-255-00 s ELECT 1 20% 50V  
 C21 1-162-294-31 s CERAMIC 0.001 10% 50V  
 C22 1-162-294-31 s CERAMIC 0.001 10% 50V  
 C102 1-124-236-00 s ELECT 47 20% 16V  
 C106 1-162-725-11 s CERAMIC 430PF 1% 50V

C108 1-124-236-00 s ELECT 47 20% 16V  
 C111 1-162-725-11 s CERAMIC 430PF 1% 50V

D1 8-719-911-19 s 1SS119  
 D2 8-719-911-19 s 1SS119  
 D3 8-719-100-13 s RD2.7E-B2  
 D4 8-719-911-19 s 1SS119  
 D101 8-719-911-19 s 1SS119

Ref No. Parts No. SP Description

D102 8-719-911-19 s 1SS119  
 D103 8-719-911-19 s 1SS119  
 D104 8-719-911-19 s 1SS119  
 D105 8-719-911-19 s 1SS119  
 D106 8-719-911-19 s 1SS119

D107 8-719-911-19 s 1SS119  
 D108 8-719-911-19 s 1SS119

IC1 8-743-731-00 s BX373A(SONY)  
 IC2 8-729-677-14 s 2SC2771(MITSUBISHI)  
 IC3 8-741-126-50 s BX1265(SONY)  
 IC4 8-759-240-09 s TC4009UBP(MOTOROLA)  
 IC5 8-729-677-14 s 2SC2771(MITSUBISHI)

IC6 8-741-126-50 s BX1265(SONY)

L1 1-410-482-31 s MICRO 100  
 L3 1-410-482-31 s MICRO 100  
 L4 1-410-482-31 s MICRO 100  
 L101 1-410-482-31 s MICRO 100

Q1 8-729-201-05 s 2SC2878-B  
 Q2 8-729-201-05 s 2SC2878-B  
 Q3 8-729-603-50 s 2SC403SP  
 Q4 8-729-603-50 s 2SC403SP  
 Q5 8-729-603-50 s 2SC403SP

Q6 8-729-603-50 s 2SC403SP  
 Q101 8-729-603-50 s 2SC403SP  
 Q102 8-729-603-50 s 2SC403SP  
 Q103 8-729-603-50 s 2SC403SP  
 Q104 8-729-177-32 s 2SD773

Q105 8-729-113-34 s 2SB733-5  
 Q106 8-729-603-50 s 2SC403SP  
 Q107 8-729-603-50 s 2SC403SP  
 Q108 8-729-177-32 s 2SD773  
 Q109 8-729-113-34 s 2SB733-5

R1 1-249-404-00 s CARBON 82 5% 1/6W  
 R2 1-249-404-00 s CARBON 82 5% 1/6W

RV1 1-228-990-00 s VAR, CARBON 1k  
 RV2 1-228-989-00 s VAR, CARBON 470  
 RV3 1-228-993-00 s VAR, CARBON 4.7k  
 RV4 1-228-991-00 s VAR, CARBON 2.2k  
 RV5 1-228-993-00 s VAR, CARBON 4.7k

RV6 1-228-991-00 s VAR, CARBON 2.2k  
 RV101 1-228-990-00 s VAR, CARBON 1k  
 RV102 1-228-990-00 s VAR, CARBON 1k

T1 1-426-017-00 s AF  
 T2 1-427-472-00 s OUTPUT  
 T3 1-426-319-11 s PB RF  
 T4 1-427-472-00 s OUTPUT  
 T5 1-426-319-11 s PB RF

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



1-800-331-6679

113-767-294

Ref No. Parts No. SP Description

RM-44 BOARD

1-622-739-11 o PRINTED CIRCUIT BOARD, RM-44

C1 1-161-379-00 s CERAMIC 0.01 30% 16V  
CN1 1-566-658-11 s 24P "REMOTE 2"  
CN2 1-561-655-00 s SOCKET, MINIATURE 9P "REMOTE 1"

IC1 8-759-201-34 s TD62503P(TOSHIBA)

RM-45 BOARD

1-622-740-11 o PRINTED CIRCUIT BOARD, RM-45

SE-48 BOARD

A-6729-496-A o MOUNTED CIRCUIT BOARD, SE-48

C2 1-162-294-31 s CERAMIC 0.001 10% 50V  
C3 1-162-207-31 s CERAMIC 22PF 5% 50V  
C5 1-162-294-31 s CERAMIC 0.001 10% 50V  
C6 1-162-207-31 s CERAMIC 22PF 5% 50V  
C8 1-162-294-31 s CERAMIC 0.001 10% 50V  
C9 1-162-207-31 s CERAMIC 22PF 5% 50V  
C11 1-162-294-31 s CERAMIC 0.001 10% 50V  
C12 1-162-207-31 s CERAMIC 22PF 5% 50V  
C14 1-161-379-00 s CERAMIC 0.01 30% 16V

IC1 8-759-132-40 s UPC324C(NEC)  
IC2 8-749-211-00 s DM-211  
IC3 8-749-211-00 s DM-211

R4 1-247-895-00 s CARBON 470k 5% 1/6W  
R8 1-247-895-00 s CARBON 470k 5% 1/6W  
R12 1-247-895-00 s CARBON 470k 5% 1/6W  
R16 1-247-895-00 s CARBON 470k 5% 1/6W

RV1 1-228-993-00 s VAR, CARBON 4.7K  
RV2 1-228-993-00 s VAR, CARBON 4.7K  
RV3 1-228-993-00 s VAR, CARBON 4.7K  
RV4 1-228-993-00 s VAR, CARBON 4.7K

Ref No. Parts No. SP Description

SV-88 BOARD

A-6715-369-A o MOUNTED CIRCUIT BOARD, SV-88

433A

C104 1-162-290-31 s CERAMIC 470PF 10% 50V  
C105 1-123-622-00 s ELECT 22 20% 16V  
C106 1-123-622-00 s ELECT 22 20% 16V  
C108 1-123-622-00 s ELECT 22 20% 16V  
C109 1-124-465-00 s ELECT 0.47 20% 50V

C111 1-162-286-31 s CERAMIC 220PF 10% 50V  
C116 1-162-288-31 s CERAMIC 330PF 10% 50V  
C117 1-162-286-31 s CERAMIC 220PF 10% 50V  
C121 1-162-288-31 s CERAMIC 330PF 10% 50V  
C132 1-162-282-31 s CERAMIC 100PF 10% 50V

C201 1-123-617-00 s ELECT 10 20% 16V  
C202 1-123-622-00 s ELECT 22 20% 16V  
C210 1-162-290-31 s CERAMIC 470PF 10% 50V  
C213 1-162-282-31 s CERAMIC 100PF 10% 50V  
C215 1-162-290-31 s CERAMIC 470PF 10% 50V

C219 1-161-494-00 s CERAMIC 0.022 30% 25V  
C401 1-123-611-00 s ELECT 1 20% 50V  
C402 1-123-611-00 s ELECT 1 20% 50V  
C403 1-123-617-00 s ELECT 10 20% 16V  
C404 1-123-617-00 s ELECT 10 20% 16V

C405 1-161-494-00 s CERAMIC 0.022 30% 25V  
C406 1-162-294-31 s CERAMIC 0.001 10% 50V  
C407 1-162-294-31 s CERAMIC 0.001 10% 50V  
C408 1-162-294-31 s CERAMIC 0.001 10% 50V  
C409 1-162-294-31 s CERAMIC 0.001 10% 50V

C410 1-161-494-00 s CERAMIC 0.022 30% 25V  
C412 1-123-622-00 s ELECT 22 20% 16V  
C415 1-123-622-00 s ELECT 22 20% 16V  
C418 1-123-617-00 s ELECT 10 20% 16V  
C419 1-123-617-00 s ELECT 10 20% 16V

C430 1-161-377-00 s CERAMIC 0.0047 30% 16V  
C431 1-161-377-00 s CERAMIC 0.0047 30% 16V  
C432 1-161-377-00 s CERAMIC 0.0047 30% 16V  
C504 1-123-617-00 s ELECT 10 20% 16V  
C507 1-123-617-00 s ELECT 10 20% 16V

C510 1-162-282-31 s CERAMIC 100PF 10% 50V  
C515 1-162-282-31 s CERAMIC 100PF 10% 50V  
C519 1-123-611-00 s ELECT 1 20% 50V  
C520 1-123-617-00 s ELECT 10 20% 16V  
C521 1-162-213-31 s CERAMIC 39PF 5% 50V

C523 1-162-290-31 s CERAMIC 470PF 10% 50V  
C525 1-123-611-00 s ELECT 1 20% 50V  
C526 1-123-617-00 s ELECT 10 20% 16V  
C527 1-162-213-31 s CERAMIC 39PF 5% 50V  
C529 1-162-290-31 s CERAMIC 470PF 10% 50V

C531 1-123-611-00 s ELECT 1 20% 50V  
C532 1-123-617-00 s ELECT 10 20% 16V  
C533 1-162-213-31 s CERAMIC 39PF 5% 50V  
C535 1-162-290-31 s CERAMIC 470PF 10% 50V  
C539 1-123-611-00 s ELECT 1 20% 50V

C540 1-123-611-00 s ELECT 1 20% 50V  
C541 1-162-282-31 s CERAMIC 100PF 10% 50V  
C543 1-123-617-00 s ELECT 10 20% 16V  
C544 1-123-617-00 s ELECT 10 20% 16V  
C545 1-130-728-00 s FILM 0.0022 5% 50V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description           | Ref No. | Parts No.    | SP | Description           |
|---------|--------------|----|-----------------------|---------|--------------|----|-----------------------|
| C550    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C831    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C601    | 1-162-282-31 | s  | CERAMIC 100PF 10% 50V | C832    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C602    | 1-162-282-31 | s  | CERAMIC 100PF 10% 50V | C833    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C603    | 1-162-282-31 | s  | CERAMIC 100PF 10% 50V | C834    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C604    | 1-162-282-31 | s  | CERAMIC 100PF 10% 50V | C835    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C606    | 1-162-282-31 | s  | CERAMIC 100PF 10% 50V | C836    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C608    | 1-162-282-31 | s  | CERAMIC 100PF 10% 50V | C837    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C618    | 1-124-465-00 | s  | ELECT 0.47 20% 50V    | C838    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C621    | 1-124-465-00 | s  | ELECT 0.47 20% 50V    | C839    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C622    | 1-102-106-00 | s  | CERAMIC 100PF 10% 50V | C840    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C623    | 1-102-106-00 | s  | CERAMIC 100PF 10% 50V | C841    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C624    | 1-102-106-00 | s  | CERAMIC 100PF 10% 50V | C901    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C750    | 1-126-103-11 | s  | ELECT 470 20% 16V     | C902    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C751    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C903    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C752    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C904    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C753    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C905    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C754    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C906    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C755    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C907    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C756    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C908    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C757    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C909    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C758    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C910    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C759    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C911    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C760    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C912    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C761    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C950    | 1-126-103-11 | s  | ELECT 470 20% 16V     |
| C762    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C951    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C763    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C952    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C764    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | C953    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |
| C765    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |         |              |    |                       |
| C766    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |         |              |    |                       |
| C767    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |         |              |    |                       |
| C801    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | CN1     | 1-506-747-21 | o  | PIN, DIN (DIP) 64P    |
| C802    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | CN2     | 1-506-747-21 | o  | PIN, DIN (DIP) 64P    |
| C803    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |         |              |    |                       |
| C804    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |         |              |    |                       |
| C805    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D101    | 8-719-911-19 | s  | 1SS119                |
| C806    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D102    | 8-719-911-19 | s  | 1SS119                |
| C807    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D103    | 8-719-911-19 | s  | 1SS119                |
| C808    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D104    | 8-719-911-19 | s  | 1SS119                |
| C809    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D105    | 8-719-911-19 | s  | 1SS119                |
| C810    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D106    | 8-719-911-19 | s  | 1SS119                |
| C811    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D107    | 8-719-911-19 | s  | 1SS119                |
| C812    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D108    | 8-719-911-19 | s  | 1SS119                |
| C813    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D109    | 8-719-911-19 | s  | 1SS119                |
| C814    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D110    | 8-719-911-19 | s  | 1SS119                |
| C815    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D201    | 8-719-911-19 | s  | 1SS119                |
| C816    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D202    | 8-719-911-19 | s  | 1SS119                |
| C817    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D203    | 8-719-911-19 | s  | 1SS119                |
| C818    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D204    | 8-719-911-19 | s  | 1SS119                |
| C819    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D205    | 8-719-911-19 | s  | 1SS119                |
| C820    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D206    | 8-719-911-19 | s  | 1SS119                |
| C821    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D207    | 8-719-911-19 | s  | 1SS119                |
| C822    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D208    | 8-719-911-19 | s  | 1SS119                |
| C823    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D209    | 8-719-911-19 | s  | 1SS119                |
| C824    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D210    | 8-719-911-19 | s  | 1SS119                |
| C825    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D211    | 8-719-911-19 | s  | 1SS119                |
| C826    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D212    | 8-719-911-19 | s  | 1SS119                |
| C827    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D213    | 8-719-911-19 | s  | 1SS119                |
| C828    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D214    | 8-719-911-19 | s  | 1SS119                |
| C829    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V | D401    | 8-719-911-19 | s  | 1SS119                |
| C830    | 1-161-494-00 | s  | CERAMIC 0.022 30% 25V |         |              |    |                       |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

D402 8-719-911-19 s 1SS119  
 D403 8-719-911-19 s 1SS119  
 D404 8-719-911-19 s 1SS119  
 D405 8-719-911-19 s 1SS119  
 D406 8-719-911-19 s 1SS119

D407 8-719-911-19 s 1SS119  
 D408 8-719-911-19 s 1SS119  
 D409 8-719-911-19 s 1SS119  
 D410 8-719-911-19 s 1SS119  
 D411 8-719-911-19 s 1SS119

D412 8-719-911-19 s 1SS119  
 D413 8-719-911-19 s 1SS119  
 D414 8-719-911-19 s 1SS119  
 D501 8-719-911-19 s 1SS119  
 D502 8-719-911-19 s 1SS119

D507 8-719-911-19 s 1SS119  
 D508 8-719-911-19 s 1SS119  
 D509 8-719-911-19 s 1SS119  
 D512 8-719-911-19 s 1SS119  
 D513 8-719-911-19 s 1SS119

D514 8-719-911-19 s 1SS119  
 D515 8-719-911-19 s 1SS119  
 D516 8-719-911-19 s 1SS119  
 D517 8-719-911-19 s 1SS119  
 D518 8-719-911-19 s 1SS119

D519 8-719-911-19 s 1SS119  
 D601 8-719-911-19 s 1SS119  
 D602 8-719-109-99 s RD7.5ES-B  
 D603 8-719-911-19 s 1SS119  
 D604 8-719-911-19 s 1SS119

D701 8-719-911-19 s 1SS119  
 D702 8-719-911-19 s 1SS119  
 D704 8-719-911-19 s 1SS119  
 D705 8-719-911-19 s 1SS119  
 D706 8-719-911-19 s 1SS119

IC101 8-752-006-00 s CX20060(SONY)  
 IC102 8-743-915-10 s BX-3915A(SONY)  
 IC103 8-759-202-74 s TC74HC04P(TOSHIBA)  
 IC104 8-759-345-38 s HD14538BP(TOSHIBA)  
 IC105 8-759-240-53 s TC4053BP(TOSHIBA)

IC106 8-759-345-38 s HD14538BP(TOSHIBA)  
 IC107 8-759-205-76 s TC504013BP(TOSHIBA)  
 IC108 8-759-729-03 s NJM2903D(JRC)  
 IC109 8-759-140-17 s UPD4017BC(TOSHIBA)  
 IC110 8-759-345-38 s HD14538BP(TOSHIBA)

IC111 8-759-729-03 s NJM2903D(JRC)  
 IC112 8-759-140-17 s UPD4017BC(TOSHIBA)  
 IC113 8-759-345-38 s HD14538BP(TOSHIBA)  
 IC114 8-759-241-61 s TC40161BP(TOSHIBA)  
 IC115 8-759-240-71 s TC4071BP(TOSHIBA)

IC116 8-759-345-38 s HD14538BP(TOSHIBA)  
 IC117 8-759-202-14 s TC74HC08P(TOSHIBA)  
 IC118 8-759-205-76 s TC504013BP(TOSHIBA)  
 IC119 8-759-345-38 s HD14538BP(TOSHIBA)  
 IC120 8-759-938-68 s CXD1095Q(SONY)

Ref No. Parts No. SP Description

IC122 8-759-240-15 s TC4015BP(TOSHIBA)  
 IC123 8-759-345-38 s HD14538BP(TOSHIBA)  
 IC125 8-759-345-38 s HD14538BP(TOSHIBA)  
 IC201 8-759-240-53 s TC4053BP(TOSHIBA)  
 IC202 8-743-914-00 s BX-3914(SONY)

IC203 8-759-705-58 s NJM4558D-D(JRC)  
 IC204 8-759-202-17 s TC74HC14P(TOSHIBA)  
 IC205 8-759-240-53 s TC4053BP(TOSHIBA)  
 IC206 8-759-345-38 s HD14538BP(TOSHIBA)  
 IC207 8-759-240-01 s TC4001BP(TOSHIBA)

IC208 8-759-240-23 s TC4023BP(TOSHIBA)  
 IC209 8-759-240-53 s TC4053BP(TOSHIBA)  
 IC210 8-759-202-74 s TC74HC04P(TOSHIBA)  
 IC211 8-759-245-10 s TC4510BP(TOSHIBA)  
 IC212 8-759-240-01 s TC4001BP(TOSHIBA)

IC213 8-759-240-82 s TC4082BP(TOSHIBA)  
 IC214 8-759-245-10 s TC4510BP(TOSHIBA)  
 IC215 8-759-240-82 s TC4082BP(TOSHIBA)  
 IC216 8-759-938-68 s CXD1095Q(SONY)  
 IC218 8-759-202-74 s TC74HC04P(TOSHIBA)

IC219 8-759-970-31 s MB88202H-567M  
 IC301 8-759-105-77 s UPD71054C(NEC)  
 IC302 8-759-105-77 s UPD71054C(NEC)  
 IC303 8-759-105-77 s UPD71054C(NEC)  
 IC304 8-759-105-77 s UPD71054C(NEC)

IC305 8-759-000-99 s MC74HC74N(TOSHIBA)  
 IC306 8-759-240-24 s TC4024BP(TOSHIBA)  
 IC307 8-759-202-74 s TC74HC04P(TOSHIBA)  
 IC308 8-759-938-83 s CF77074NT(TI)  
 IC309 8-759-938-83 s CF77074NT(TI)

IC310 8-759-938-83 s CF77074NT(TI)  
 IC311 8-759-240-30 s TC4030BP(TOSHIBA)  
 IC401 8-759-132-40 s UPC324C(NEC)  
 IC402 8-759-240-52 s TC4052BP(TOSHIBA)  
 IC403 8-759-240-52 s TC4052BP(TOSHIBA)

IC404 8-759-901-29 s MSM5128-15RS(SONY)  
 IC405 8-759-746-82 s 27128-25(INTEL)  
 IC406 8-759-203-35 s TC74HC373P(TOSHIBA)  
 IC407 8-759-113-03 s UPD78310CW(NEC)  
 IC408 8-759-917-43 s SN74HC138N(TOSHIBA)

IC409 8-759-917-43 s SN74HC138N(TOSHIBA)  
 IC410 8-759-202-89 s TC74HC139P(TOSHIBA)  
 IC411 8-759-103-95 s UPC648C(NEC)  
 IC412 8-759-990-82 s TL082CP(TI)  
 IC413 8-759-203-12 s TC74HC241P(TOSHIBA)

IC414 8-759-240-66 s TC4066BP(TOSHIBA)  
 IC415 8-759-240-66 s TC4066BP(TOSHIBA)  
 IC416 8-759-990-84 s TL084CN(TI)  
 IC417 8-759-990-84 s TL084CN(TI)  
 IC418 8-759-708-09 s NJM78L09A(JRC)

IC420 8-759-202-13 s TC74HC04P(TOSHIBA)  
 IC422 8-759-203-68 s TC74HC040P(TOSHIBA)  
 IC423 8-759-345-38 s HD14538BP(TOSHIBA)  
 IC501 8-759-729-03 s NJM2903D(JRC)  
 IC502 8-759-990-82 s TL082CP(TI)

IC503 8-759-145-58 s UPC4558C(NEC)  
 IC504 8-759-132-40 s UPC324C(NEC)  
 IC505 8-759-240-53 s TC4053BP(TOSHIBA)  
 IC506 8-759-729-03 s NJM2903D(JRC)  
 IC507 8-759-910-43 s CX23028(SONY)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.     | SP  | Description        | Ref No. | Parts No.    | SP | Description         |
|---------|---------------|-----|--------------------|---------|--------------|----|---------------------|
| IC509   | 8-759-345-38  | s   | HD14538BP(TOSHIBA) | Q412    | 8-729-900-63 | s  | DTA124ES            |
| IC510   | 8-759-729-03  | s   | NJM2903D(JRC)      | Q501    | 8-729-900-36 | s  | DTC124ES            |
| IC511   | 8-759-729-03  | s   | NJM2903D(JRC)      | Q502    | 8-729-201-05 | s  | 2SC2878-B           |
| IC512   | 8-759-345-38  | s   | HD14538BP(TOSHIBA) | Q503    | 8-729-201-05 | s  | 2SC2878-B           |
| IC513   | 8-759-902-21  | s   | SN74LS221N(TI)     | Q504    | 8-729-201-05 | s  | 2SC2878-B           |
| IC514   | 8-759-990-82  | s   | TL082CP(TI)        | Q505    | 8-729-201-05 | s  | 2SC2878-B           |
| IC515   | 8-759-990-82  | s   | TL082CP(TI)        | Q506    | 8-729-900-36 | s  | DTC124ES            |
| IC516   | 8-759-938-68  | s   | CXD1095Q(SONY)     | Q507    | 8-729-900-36 | s  | DTC124ES            |
| IC601   | 8-759-132-40  | s   | UPC324C(NEC)       | Q508    | 8-729-201-05 | s  | 2SC2878-B           |
|         | UC: S/N 10001 | to  | 10080              | Q509    | 8-729-201-05 | s  | 2SC2878-B           |
|         | J: S/N 10001  | to  | 10020              |         |              |    |                     |
| IC601   | 8-759-990-84  | s   | TL084CN(TI)        | Q510    | 8-729-900-36 | s  | DTC124ES            |
|         | UC: S/N 10081 | and | Higher             | Q511    | 8-729-900-36 | s  | DTC124ES            |
|         | J: S/N 10021  | and | Higher             | Q601    | 8-729-900-36 | s  | DTC124ES            |
| IC602   | 8-759-132-40  | s   | UPC324C(NEC)       | Q603    | 8-729-900-63 | s  | DTA124ES            |
| IC603   | 8-759-145-58  | s   | UPC4558C(NEC)      | Q604    | 8-729-201-05 | s  | 2SC2878-B           |
| IC604   | 8-759-132-40  | s   | UPC324C(NEC)       |         |              |    |                     |
|         | UC: S/N 10001 | to  | 10080              | Q605    | 8-729-900-63 | s  | DTA124ES            |
|         | J: S/N 10001  | to  | 10020              | Q606    | 8-729-201-05 | s  | 2SC2878-B           |
| IC604   | 8-759-990-84  | s   | TL084CN(TI)        | Q607    | 8-729-201-05 | s  | 2SC2878-B           |
|         | UC: S/N 10081 | and | Higher             | Q608    | 8-729-201-05 | s  | 2SC2878-B           |
|         | J: S/N 10021  | and | Higher             | Q609    | 8-729-201-05 | s  | 2SC2878-B           |
| IC605   | 8-759-132-40  | s   | UPC324C(NEC)       |         |              |    |                     |
| IC606   | 8-759-240-53  | s   | TC4053BP(TOSHIBA)  | Q610    | 8-729-178-54 | s  | 2SC2785             |
| IC607   | 8-759-240-53  | s   | TC4053BP(TOSHIBA)  | Q611    | 8-729-178-54 | s  | 2SC2785             |
| IC608   | 8-759-729-03  | s   | NJM2903D(JRC)      | Q612    | 8-729-178-54 | s  | 2SC2785             |
| IC609   | 8-759-729-03  | s   | NJM2903D(JRC)      | Q613    | 8-729-900-36 | s  | DTC124ES            |
| IC610   | 8-759-910-43  | s   | CX23028(SONY)      |         |              |    |                     |
| L201    | 1-459-155-00  | s   | (WITH CORE) 45     | R118    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| L701    | 1-459-155-00  | s   | (WITH CORE) 45     | R128    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| L702    | 1-459-155-00  | s   | (WITH CORE) 45     | R172    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| L703    | 1-459-155-00  | s   | (WITH CORE) 45     | R244    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| L704    | 1-459-155-00  | s   | (WITH CORE) 45     | R450    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| Q101    | 8-729-201-05  | s   | 2SC2878-B          |         |              |    |                     |
| Q102    | 8-729-201-05  | s   | 2SC2878-B          | R451    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| Q103    | 8-729-900-36  | s   | DTC124ES           | R452    | 1-247-883-00 | s  | CARBON 150k 5% 1/6W |
| Q104    | 8-729-900-36  | s   | DTC124ES           | R505    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| Q105    | 8-729-201-04  | s   | 2SC2878            | R516    | 1-247-849-00 | s  | CARBON 5.6k 5% 1/6W |
| Q106    | 8-729-900-36  | s   | DTC124ES           | R530    | 1-247-895-00 | s  | CARBON 470k 5% 1/6W |
| Q201    | 8-729-900-36  | s   | DTC124ES           |         |              |    |                     |
| Q202    | 8-729-900-63  | s   | DTA124ES           | R535    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| Q203    | 8-729-178-54  | s   | 2SC2785            | R541    | 1-247-891-00 | s  | CARBON 330k 5% 1/6W |
| Q204    | 8-729-900-36  | s   | DTC124ES           | R551    | 1-247-895-00 | s  | CARBON 470k 5% 1/6W |
| Q205    | 8-729-900-36  | s   | DTC124ES           | R557    | 1-247-895-00 | s  | CARBON 470k 5% 1/6W |
| Q206    | 8-729-900-36  | s   | DTC124ES           | R566    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| Q207    | 8-729-178-54  | s   | 2SC2785            |         |              |    |                     |
| Q301    | 8-729-900-36  | s   | DTC124ES           | R574    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| Q401    | 8-729-178-54  | s   | 2SC2785            | R582    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| Q402    | 8-729-178-54  | s   | 2SC2785            | R584    | 1-247-881-00 | s  | CARBON 120k 5% 1/6W |
| Q403    | 8-729-178-54  | s   | 2SC2785            | R589    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
| Q404    | 8-729-178-54  | s   | 2SC2785            | R601    | 1-247-747-11 | s  | CARBON 470 5% 1/2W  |
| Q405    | 8-729-117-54  | s   | 2SA1175            |         |              |    |                     |
| Q406    | 8-729-178-54  | s   | 2SC2785            | R602    | 1-247-747-11 | s  | CARBON 470 5% 1/2W  |
| Q407    | 8-729-900-63  | s   | DTA124ES           | R610    | 1-247-883-00 | s  | CARBON 150k 5% 1/6W |
| Q408    | 8-729-900-36  | s   | DTC124ES           | R620    | 1-247-885-00 | s  | CARBON 180k 5% 1/6W |
| Q409    | 8-729-900-36  | s   | DTC124ES           | R640    | 1-247-895-00 | s  | CARBON 470k 5% 1/6W |
| Q410    | 8-729-900-36  | s   | DTC124ES           | R650    | 1-247-883-00 | s  | CARBON 150k 5% 1/6W |
| Q411    | 8-729-178-54  | s   | 2SC2785            |         |              |    |                     |
|         |               |     |                    | R688    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
|         |               |     |                    | R740    | 1-532-685-00 | s  | LINK, IC            |
|         |               |     |                    | R741    | 1-532-685-00 | s  | LINK, IC            |
|         |               |     |                    | R742    | 1-532-685-00 | s  | LINK, IC            |
|         |               |     |                    | R743    | 1-532-685-00 | s  | LINK, IC            |
|         |               |     |                    |         |              |    |                     |
|         |               |     |                    | R800    | 1-247-895-00 | s  | CARBON 470k 5% 1/6W |
|         |               |     |                    | R809    | 1-247-895-00 | s  | CARBON 470k 5% 1/6W |
|         |               |     |                    | R810    | 1-247-895-00 | s  | CARBON 470k 5% 1/6W |
|         |               |     |                    | R857    | 1-247-887-00 | s  | CARBON 220k 5% 1/6W |
|         |               |     |                    | R858    | 1-247-883-00 | s  | CARBON 150k 5% 1/6W |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description         |
|---------|--------------|----|---------------------|
| RB201   | 1-231-411-00 | s  | RESISTOR BLOCK 100K |

|       |              |   |                  |
|-------|--------------|---|------------------|
| RV101 | 1-228-996-00 | s | VAR, CARBON 47K  |
| RV102 | 1-228-996-00 | s | VAR, CARBON 47K  |
| RV103 | 1-230-499-11 | s | VAR, CARBON 100K |
| RV104 | 1-230-499-11 | s | VAR, CARBON 100K |
| RV105 | 1-228-999-00 | s | VAR, CARBON 470K |

|       |              |   |                  |
|-------|--------------|---|------------------|
| RV106 | 1-228-999-00 | s | VAR, CARBON 470K |
| RV107 | 1-228-999-00 | s | VAR, CARBON 470K |
| RV401 | 1-228-993-00 | s | VAR, CARBON 4.7K |
| RV402 | 1-228-990-00 | s | VAR, CARBON 1K   |
| RV403 | 1-228-997-00 | s | VAR, CARBON 100K |

|       |              |   |                  |
|-------|--------------|---|------------------|
| RV404 | 1-228-997-00 | s | VAR, CARBON 100K |
| RV501 | 1-228-993-00 | s | VAR, CARBON 4.7K |
| RV502 | 1-228-994-00 | s | VAR, CARBON 10K  |
| RV503 | 1-228-994-00 | s | VAR, CARBON 10K  |
| RV504 | 1-228-999-00 | s | VAR, CARBON 470K |

|       |              |   |                 |
|-------|--------------|---|-----------------|
| RV505 | 1-228-996-00 | s | VAR, CARBON 47K |
| RV506 | 1-228-994-00 | s | VAR, CARBON 10K |
| RV507 | 1-228-994-00 | s | VAR, CARBON 10K |
| RV601 | 1-228-994-00 | s | VAR, CARBON 10K |
| RV602 | 1-228-994-00 | s | VAR, CARBON 10K |

|       |              |   |                 |
|-------|--------------|---|-----------------|
| RV603 | 1-228-994-00 | s | VAR, CARBON 10K |
|-------|--------------|---|-----------------|

|      |              |   |     |
|------|--------------|---|-----|
| S201 | 1-552-782-00 | s | DIP |
| S202 | 1-552-509-00 | s | DIP |

|      |              |   |                         |
|------|--------------|---|-------------------------|
| X401 | 1-567-865-11 | s | VIBRATOR, CRYSTAL 12MHz |
|------|--------------|---|-------------------------|

SW-170 BOARD

|              |   |                               |
|--------------|---|-------------------------------|
| 1-622-737-11 | o | PRINTED CIRCUIT BOARD, SW-170 |
|--------------|---|-------------------------------|

|    |              |   |        |
|----|--------------|---|--------|
| D1 | 8-719-800-86 | s | TLG255 |
| D2 | 8-719-800-86 | s | TLG255 |
| D3 | 8-719-800-86 | s | TLG255 |
| D4 | 8-719-800-89 | s | TLY255 |
| D5 | 8-719-800-89 | s | TLY255 |

|    |              |   |        |
|----|--------------|---|--------|
| D6 | 8-719-800-89 | s | TLY255 |
|----|--------------|---|--------|

|    |              |   |           |
|----|--------------|---|-----------|
| Q1 | 8-729-178-55 | s | 2SC2785-E |
| Q2 | 8-729-178-55 | s | 2SC2785-E |
| Q3 | 8-729-178-55 | s | 2SC2785-E |

|     |              |   |                       |
|-----|--------------|---|-----------------------|
| RV1 | 1-237-713-11 | s | VAR, VAR, CARBON 100k |
|-----|--------------|---|-----------------------|

|    |              |   |                             |
|----|--------------|---|-----------------------------|
| S1 | 1-516-994-00 | s | LEVER SLIDE "VIDEO LEVEL"   |
| S2 | 1-516-994-00 | s | LEVER SLIDE "AUDIO LIMITER" |
| S3 | 1-516-963-00 | s | LEVER SLIDE "AUDIO MONITOR" |
| S4 | 1-516-994-00 | s | LEVER SLIDE "INPUT SELECT"  |
| S5 | 1-516-994-00 | s | LEVER SLIDE "REMOTE/LOCAL"  |

| Ref No. | Parts No. | SP | Description |
|---------|-----------|----|-------------|
|---------|-----------|----|-------------|

SW-171 BOARD

|              |   |                               |
|--------------|---|-------------------------------|
| 1-622-738-11 | o | PRINTED CIRCUIT BOARD, SW-171 |
|--------------|---|-------------------------------|

|    |              |   |                      |
|----|--------------|---|----------------------|
| S1 | 1-554-481-00 | s | SLIDE "CHARACTER"    |
| S2 | 1-554-481-00 | s | SLIDE "DOLBY NR"     |
| S3 | 1-554-481-00 | s | SLIDE "REMOTE/2"     |
| S4 | 1-554-482-00 | s | SLIDE "INT TBC/AUTO" |

SY-102 BOARD

|              |   |                               |
|--------------|---|-------------------------------|
| A-6717-457-A | o | MOUNTED CIRCUIT BOARD, SY-102 |
|--------------|---|-------------------------------|

|     |              |   |          |      |     |     |
|-----|--------------|---|----------|------|-----|-----|
| C3  | 1-124-445-00 | s | ELECT    | 100  | 20% | 16V |
| C6  | 1-161-379-00 | s | CERAMIC  | 0.01 | 30% | 16V |
| C7  | 1-131-351-00 | s | TANTALUM | 4.7  | 10% | 35V |
| C8  | 1-123-611-00 | s | ELECT    | 1    | 20% | 50V |
| C11 | 1-124-245-00 | s | ELECT    | 4.7  | 20% | 16V |

|     |              |   |         |       |     |      |
|-----|--------------|---|---------|-------|-----|------|
| C12 | 1-107-169-00 | s | MICA    | 100PF | 5%  | 500V |
| C13 | 1-107-169-00 | s | MICA    | 100PF | 5%  | 500V |
| C14 | 1-161-379-00 | s | CERAMIC | 0.01  | 30% | 16V  |
| C15 | 1-161-379-00 | s | CERAMIC | 0.01  | 30% | 16V  |
| C16 | 1-161-379-00 | s | CERAMIC | 0.01  | 30% | 16V  |

|     |              |   |         |      |     |     |
|-----|--------------|---|---------|------|-----|-----|
| C20 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C21 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C23 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C27 | 1-123-611-00 | s | ELECT   | 1    | 20% | 50V |
| C28 | 1-124-247-00 | s | ELECT   | 10   | 20% | 25V |

|     |              |   |         |      |     |     |
|-----|--------------|---|---------|------|-----|-----|
| C30 | 1-123-611-00 | s | ELECT   | 1    | 20% | 50V |
| C31 | 1-162-871-00 | s | CERAMIC | 47PF | 5%  | 50V |
| C36 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C37 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C38 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |

|     |              |   |         |      |     |     |
|-----|--------------|---|---------|------|-----|-----|
| C39 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C40 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C41 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C42 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C43 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |

|     |              |   |         |      |     |     |
|-----|--------------|---|---------|------|-----|-----|
| C44 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C45 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C46 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C47 | 1-161-379-00 | s | CERAMIC | 0.01 | 30% | 16V |
| C48 | 1-162-207-31 | s | CERAMIC | 22PF | 5%  | 50V |

|     |              |   |         |      |     |     |
|-----|--------------|---|---------|------|-----|-----|
| C49 | 1-162-207-31 | s | CERAMIC | 22PF | 5%  | 50V |
| C51 | 1-124-245-00 | s | ELECT   | 4.7  | 20% | 16V |

|       |              |   |            |
|-------|--------------|---|------------|
| CN558 | 1-506-701-11 | o | HEADER 10P |
|-------|--------------|---|------------|

|    |              |   |        |
|----|--------------|---|--------|
| D2 | 8-719-911-19 | s | 1SS119 |
| D3 | 8-719-911-19 | s | 1SS119 |
| D4 | 8-719-911-19 | s | 1SS119 |
| D5 | 8-719-911-19 | s | 1SS119 |
| D6 | 8-719-911-19 | s | 1SS119 |

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Ref No. Parts No. SP Description

D7 8-719-911-19 s 1SS119  
 D8 8-719-911-19 s 1SS119  
 D9 8-719-911-19 s 1SS119  
 D10 8-719-911-19 s 1SS119  
 D11 8-719-911-19 s 1SS119  
 D12 8-719-911-19 s 1SS119  
 D15 8-719-911-19 s 1SS119  
 D16 8-719-911-19 s 1SS119  
 D17 8-719-911-19 s 1SS119

IC1 8-759-208-85 s TMPZ84C011AF(TOSHIBA)  
 IC2 8-759-746-63 s MBM27C256-25(FUJITSU)  
 IC3 8-752-321-03 s CXK5864PN-10(SONY)  
 IC4 8-759-942-12 s MBM2212-25P(FUJITSU)  
 IC5 8-759-916-84 s LH0084A(SHARP)

IC6 8-759-938-68 s CXD1095Q(SONY)  
 IC7 8-759-944-65 s MB88551H-263M(FUJITSU)  
 IC8 8-759-202-86 s TC74HC123P(TOSHIBA)  
 IC9 8-759-202-74 s TC74HC04P(TOSHIBA)  
 IC10 8-759-240-69 s TC4069UBP(TOSHIBA)

IC11 8-759-202-85 s MC74HC126N(TI)  
 IC12 8-759-008-57 s MC34051P(MOTOROLA)  
 IC13 8-759-202-21 s TC74HC32P(TI)  
 IC14 8-759-202-89 s TC74HC139P(TI)  
 IC15 8-759-145-58 s UPC4558C(NEC)

IC16 8-759-729-03 s NJM2903D(JRC)  
 IC17 8-759-202-21 s TC74HC32P(TI)  
 IC18 8-759-202-17 s TC74HC14P(TOSHIBA)

Q2 8-729-900-65 s DTA144ES  
 Q3 8-729-900-89 s DTC144ES  
 Q4 8-729-900-89 s DTC144ES  
 Q5 8-729-275-42 s 2SC2754-Y  
 Q6 8-729-275-42 s 2SC2754-Y

Q7 8-729-178-55 s 2SC2785-E  
 Q8 8-729-178-55 s 2SC2785-E  
 Q9 8-729-900-89 s DTC144ES  
 Q11 8-729-811-11 s 2SD1111

R8 1-247-881-00 s CARBON 120k 5% 1/6W  
 R44 1-247-887-00 s CARBON 220k 5% 1/6W  
 R47 1-247-887-00 s CARBON 220k 5% 1/6W  
 R86 1-247-849-00 s CARBON 5.6k 5% 1/6W  
 R88 1-247-849-00 s CARBON 5.6k 5% 1/6W

RB1 1-235-005-00 s RESISTOR BLOCK 47K  
 RB2 1-235-005-00 s RESISTOR BLOCK 47K  
 RB3 1-231-410-00 s RESISTOR BLOCK 10K  
 RB4 1-231-410-00 s RESISTOR BLOCK 10K  
 RB5 1-235-005-00 s RESISTOR BLOCK 47K

RB6 1-235-109-00 s RESISTOR BLOCK 22K  
 RB7 1-235-109-00 s RESISTOR BLOCK 22K  
 RB8 1-235-109-00 s RESISTOR BLOCK 22K  
 RB9 1-231-407-00 s RESISTOR BLOCK 2.2K  
 RB10 1-231-410-00 s RESISTOR BLOCK 10K

RB11 1-231-410-00 s RESISTOR BLOCK 10K

Ref No. Parts No. SP Description

RV1 1-230-497-11 s VAR, CARBON 22k

X1 1-567-870-11 s VIBRATOR, CERAMIC 9.83MHz  
 X2 1-567-132-00 s VIBLATOR, CERAMIC 8MHz

VR-48 BOARD

1-622-727-11 o PRINTED CIRCUIT BOARD, VR-48

C101 1-124-445-00 s ELECT 100 20% 16V  
 C102 1-124-445-00 s ELECT 100 20% 16V  
 C201 1-124-445-00 s ELECT 100 20% 16V  
 C202 1-124-445-00 s ELECT 100 20% 16V

IC1 8-759-705-62 s NJM4562D-D(JRC)  
 IC2 8-759-705-62 s NJM4562D-D(JRC)

RV1 1-230-339-11 s VAR, VAR, CARBON 100k  
 RV2 1-237-715-11 s VAR, VAR, CARBON 10k  
 RV3 1-237-714-11 s VAR, VAR, CARBON 5k/5k  
 RV4 1-237-714-11 s VAR, VAR, CARBON 5k/5k

VR-49 BOARD

1-622-731-11 o PRINTED CIRCUIT BOARD, VR-49

R11 1-249-406-11 s CARBON 120 5% 1/6W  
 R12 1-249-406-11 s CARBON 120 5% 1/6W

RV11 1-228-218-00 s VAR, CARBON 500/500

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

SWITCHING REGULATOR UR-21

△ 1-413-307-11 s SWITCHING REGULATOR UR-21/21B

△ CN961 1-562-285-11 o HOUSING 4P

M201 1-541-484-11 o DC FAN

UR-21 C1 BOARD

A-4925-216-A o MOUNTED CIRCUIT BOARD, UR-21 C1

C51 1-161-925-91 s CERAMIC 100PF 10% 500V  
 C52 1-161-925-91 s CERAMIC 100PF 10% 500V  
 C53 1-131-458-51 s TANTAL 1.5 20% 16V  
 C55 1-130-018-51 s FILM 0.001 5% 50V  
 C56 1-130-528-51 s TEREPHTHALATE 0.1 10% 50V  
 C57 1-130-506-91 s TEREPHTHALATE 0.0015 10% 50V  
 C59 1-130-528-51 s TEREPHTHALATE 0.1 10% 50V  
 C61 1-124-924-91 s ELECT 1 20% 100V

CN52 1-564-352-11 o PIN, 7P  
 CN53 1-564-352-11 o PIN, 7P

D51 1-807-913-21 s 11EQS04  
 D52 1-807-913-21 s 11EQS04  
 D53 1-807-913-21 s 11EQS04  
 D54 1-807-913-21 s 11EQS04  
 D55 8-719-911-19 s 1SS119  
 D56 8-719-911-19 s 1SS119  
 D57 8-719-109-93 s RD6.2ES-B3  
 D58 8-719-107-87 s THYRISTOR 03P2M  
 D59 8-719-911-19 s 1SS119  
 D60 8-719-911-19 s 1SS119  
 D61 8-719-911-19 s 1SS119  
 D62 8-719-911-19 s 1SS119  
 D63 8-719-109-75 s RD4.3ES-B2

IC51 8-759-937-59 s MB3759(FUJITSU)  
 IC52 8-759-103-93 s UPC393C(NEC)

L51 1-410-466-21 s MICRO 4.7

Q51 8-729-208-04 s 2SK422  
 Q52 8-729-208-04 s 2SK422  
 Q53 8-729-117-54 s 2SA1175  
 Q54 8-729-178-54 s 2SC2785  
 Q55 8-729-117-54 s 2SA1175

Ref No. Parts No. SP Description

D51 1-807-913-21 s 11EQS04  
 D52 1-807-913-21 s 11EQS04  
 D53 1-807-913-21 s 11EQS04  
 D54 1-807-913-21 s 11EQS04  
 D55 1-719-911-19 s 1SS119

D56 1-719-911-19 s 1SS119  
 D57 8-719-112-98 s RD15ES-T1B2  
 D58 8-719-108-87 s 03P2M  
 D59 8-719-911-19 s 1SS119  
 D60 8-719-911-19 s 1SS119

D61 8-719-911-19 s 1SS119  
 D62 8-719-911-19 s 1SS119  
 D63 8-719-112-73 s RD11ES-T1B2

IC51 8-759-937-59 s MB3759(FUJITSU)  
 IC52 8-759-103-93 s UPC393C(NEC)

L51 1-410-466-21 s MICRO 4.7

Q51 8-729-208-04 s 2SK422  
 Q52 8-729-208-04 s 2SK422  
 Q53 8-729-117-54 s 2SA1175  
 Q54 8-729-178-54 s 2SC2785  
 Q55 8-729-117-54 s 2SA1175

R51 1-247-813-91 s CARBON 180 5% 1/4W  
 R52 1-247-829-91 s CARBON 820 5% 1/4W  
 R53 1-247-825-91 s CARBON 560 5% 1/4W  
 R54 1-247-825-91 s CARBON 560 5% 1/4W  
 R55 1-215-445-91 s METAL 10K 1% 1/6W

R56 1-247-903-91 s CARBON 1M 5% 1/4W  
 R57 1-247-823-91 s CARBON 470 5% 1/4W  
 R58 1-247-877-91 s CARBON 82K 5% 1/4W  
 R60 1-247-813-91 s CARBON 7.5K 5% 1/4W  
 R61 1-247-849-91 s CARBON 27K 5% 1/4W

R62 1-247-835-91 s CARBON 1.5K 5% 1/4W  
 R63 1-247-839-91 s CARBON 2.2K 5% 1/4W  
 R64 1-247-865-91 s CARBON 4.7K 5% 1/4W  
 R65 1-247-847-91 s CARBON 4.7K 5% 1/4W  
 R66 1-247-869-91 s CARBON 39K 5% 1/4W

R68 1-247-853-91 s CARBON 8.2K 5% 1/4W  
 R69 1-247-831-91 s CARBON 1K 5% 1/4W  
 R70 1-247-849-91 s CARBON 5.6K 5% 1/4W  
 R71 1-247-831-91 s CARBON 1K 5% 1/4W  
 R72 1-247-843-91 s CARBON 3.3K 5% 1/4W

R73 1-247-841-91 s CARBON 2.7K 5% 1/4W  
 R74 1-247-855-91 s CARBON 10K 5% 1/4W  
 R75 1-247-855-91 s CARBON 10K 5% 1/4W  
 R76 1-247-839-91 s CARBON 2.2K 5% 1/4W  
 R77 1-247-855-91 s CARBON 10K 5% 1/4W

R78 1-247-847-91 s CARBON 4.7K 5% 1/4W  
 R79 1-247-863-91 s CARBON 22K 5% 1/4W  
 R80 1-247-855-91 s CARBON 10K 5% 1/5W  
 R81 1-247-849-91 s CARBON 5.6K 5% 1/4W  
 R83 1-247-843-91 s CARBON 3.3K 5% 1/4W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No.    | SP | Description         |
|---------|--------------|----|---------------------|
| R84     | 1-247-847-91 | s  | CARBON 4.7K 5% 1/4W |
| R85     | 1-247-831-91 | s  | CAROBN 1K 5% 1/4W   |
| RV51    | 1-228-990-11 | s  | VAR, METAL GLAZE 1K |

**UR-21 M1 BOARD**

A-4925-214-A o MOUNTED CIRCUIT BOARD, UR-21 M1

|      |              |   |               |        |     |      |
|------|--------------|---|---------------|--------|-----|------|
| C101 | 1-136-564-11 | s | CERAMIC       | 1000PF | 10% | 500V |
| C102 | 1-136-564-11 | s | CERAMIC       | 1000PF | 10% | 500V |
| C104 | 1-125-477-11 | s | ELECT         | 470    | 20% | 400V |
| C105 | 1-125-477-11 | s | ELECT         | 470    | 20% | 400V |
| C106 | 1-161-915-11 | s | CERAMIC       | 1000PF | 10% | 500V |
| C107 | 1-161-915-11 | s | CERAMIC       | 1000PF | 10% | 500V |
| C203 | 1-161-915-11 | s | CERAMIC       | 1000PF | 10% | 500V |
| C204 | 1-161-915-11 | s | CERAMIC       | 1000PF | 10% | 500V |
| C205 | 1-124-636-51 | s | ELECT         | 3300   | 20% | 25V  |
| C206 | 1-130-516-91 | s | TEREPHTHALATE | 0.01   | 10% | 50V  |
| C209 | 1-124-891-51 | s | ELECT         | 10000  | 20% | 6.3V |
| C211 | 1-130-772-21 | s | METAL         | 0.22   | 10% | 63V  |
| C212 | 1-124-621-51 | s | ELECT         | 3300   | 20% | 6.3V |
| C213 | 1-130-772-21 | s | METAL         | 0.22   | 10% | 63V  |
| C214 | 1-124-585-51 | s | ELECT         | 3300   | 20% | 10V  |
| C221 | 1-130-518-91 | s | TEREPHTHALATE | 0.015  | 10% | 50V  |
| C222 | 1-130-524-51 | s | TEREPHTHALATE | 0.047  | 10% | 50V  |
| C223 | 1-130-524-51 | s | TEREPHTHALATE | 0.047  | 10% | 50V  |
| C227 | 1-124-120-51 | s | ELECT         | 220    | 20% | 25V  |
| C228 | 1-130-772-21 | s | METAL         | 0.22   | 10% | 63V  |
| C229 | 1-130-772-21 | s | METAL         | 0.22   | 10% | 63V  |
| C230 | 1-130-772-21 | s | METAL         | 0.22   | 10% | 63V  |

|       |              |   |    |
|-------|--------------|---|----|
| CN101 | 1-564-242-11 | o | 5P |
| CN201 | 1-564-932-11 | o | 9P |
| CN202 | 1-560-893-11 | o | 5P |
| CN203 | 1-560-299-11 | o | 2P |
| CN204 | 1-560-890-21 | o | 2P |

|      |              |   |            |
|------|--------------|---|------------|
| D101 | 8-719-109-75 | s | RD4.3ES-B2 |
| D102 | 8-719-912-20 | s | 1S120      |
| D103 | 1-807-913-21 | s | 11EQS04    |
| D104 | 1-807-913-21 | s | 11EQS04    |
| D201 | 1-807-774-21 | s | AU02A      |

|      |              |   |            |
|------|--------------|---|------------|
| D202 | 8-719-109-85 | s | RD5.1ES-B2 |
| D203 | 8-719-109-85 | s | RD5.1ES-B2 |
| D204 | 8-719-911-19 | s | 1S119      |
| D205 | 8-719-200-01 | s | 10E-1      |
| D206 | 8-719-200-01 | s | 10E-1      |

| Ref No. | Parts No.    | SP | Description |
|---------|--------------|----|-------------|
| D207    | 1-807-911-11 | s  | F10P40F     |
| D208    | 8-719-200-01 | s  | 10E-1       |
| D209    | 8-719-200-01 | s  | 10E-1       |
| D210    | 8-719-302-60 | s  | FML-32S     |
| D211    | 1-807-963-21 | s  | 31DF2       |
| D212    | 1-807-963-21 | s  | 31DF2       |
| D213    | 8-719-110-13 | s  | RD9.1ES-B2  |
| D214    | 1-807-911-21 | s  | F10P40FR    |
| D215    | 8-719-912-20 | s  | 1S120       |
| D216    | 8-719-912-20 | s  | 1S120       |

|      |              |   |       |
|------|--------------|---|-------|
| D220 | 8-719-200-01 | s | 10E-1 |
| D222 | 8-719-200-01 | s | 10E-1 |

|       |              |   |
|-------|--------------|---|
| FB201 | 1-543-060-11 | s |
| FB202 | 1-543-060-11 | s |
| FB203 | 1-543-060-11 | s |
| FB204 | 1-543-060-11 | s |
| FB205 | 1-543-060-11 | s |

|       |              |   |
|-------|--------------|---|
| FB206 | 1-543-060-11 | s |
|-------|--------------|---|

|       |              |   |              |
|-------|--------------|---|--------------|
| IC101 | 1-807-814-11 | s | B-5272(JRM)  |
| IC201 | 8-759-135-80 | s | UPC358C(NEC) |
| IC202 | 8-759-077-33 | s | TL431CLP(TI) |
| IC203 | 8-759-077-33 | s | TL431CLP(TI) |

|      |              |   |       |
|------|--------------|---|-------|
| L201 | A-4935-038-A | s | CHOKE |
| L202 | 1-421-459-21 | s | CHOKE |
| L203 | A-4935-037-A | s | CHOKE |
| L204 | 1-421-459-21 | s | CHOKE |
| L205 | 1-421-734-11 | s | CHOKE |

|      |              |   |       |
|------|--------------|---|-------|
| L206 | 1-421-459-21 | s | CHOKE |
| L207 | 1-421-459-21 | s | CHOKE |

|       |              |   |          |
|-------|--------------|---|----------|
| PS101 | 1-532-605-11 | s | LINK, IC |
| PS201 | 1-532-605-11 | s | LINK, IC |

|      |              |   |         |
|------|--------------|---|---------|
| Q101 | 1-807-858-11 | s | IREP451 |
| Q102 | 1-807-858-11 | s | IREP451 |
| Q103 | 8-729-113-32 | s | 2SB733  |
| Q104 | 8-729-113-32 | s | 2SB733  |
| Q201 | 8-729-103-43 | s | 2SB734  |

|      |              |   |         |
|------|--------------|---|---------|
| Q202 | 8-729-178-54 | s | 2SC2785 |
| Q203 | 8-729-178-54 | s | 2SC2785 |
| Q204 | 8-729-178-54 | s | 2SC2785 |
| Q205 | 1-807-914-11 | s | 2SA1443 |
| Q206 | 8-729-177-43 | s | 2SD774  |

|      |              |   |         |
|------|--------------|---|---------|
| Q207 | 1-807-914-11 | s | 2SA1443 |
| Q208 | 8-729-117-54 | s | 2SA1175 |
| Q209 | 1-807-195-11 | s | 2SC3692 |
| Q210 | 8-729-178-54 | s | 2SC2785 |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

R101 1-247-855-91 s CARBON 10K 5% 1/4W  
 R102 1-246-473-75 s CARBON 1K 5% 1/4W  
 R103 1-247-692-51 s CARBON 22 5% 1/4W  
 R104 1-247-692-51 s CARBON 22 5% 1/4W  
 R105 1-247-831-91 s CARBON 1K 5% 1/4W

R106 1-247-831-91 s CARBON 1K 5% 1/4W  
 R107 1-205-622-11 s CEMENT 33 5% 5W  
 R201 1-247-849-91 s CARBON 5.6K 5% 1/4W  
 R202 1-247-837-91 s CARBON 1.8K 5% 1/4W  
 R203 1-246-445-75 s CARBON 68 5% 1/4W

R204 1-247-855-91 s CARBON 10K 5% 1/4W  
 R205 1-247-861-91 s CARBON 18K 5% 1/4W  
 R206 1-247-841-91 s CARBON 2.7K 5% 1/4W  
 R207 1-247-849-91 s CARBON 5.6K 5% 1/4W  
 R208 1-247-843-91 s CARBON 3.3K 5% 1/4W

R209 1-247-831-91 s CARBON 1K 5% 1/4W

△ R210 1-205-623-11 s CEMENT 47 5% 5W  
 R212 1-206-648-61 s FILM 220 5% 2W

R213 1-247-859-91 s CARBON 15K 5% 1/4W  
 R214 1-247-855-91 s CARBON 10K 5% 1/4W

R215 1-247-887-91 s CARBON 220K 5% 1/4W  
 R216 1-215-451-91 s METAL 18K 1% 1/6W  
 R217 1-215-435-91 s METAL 3.9K 1% 1/6W  
 R218 1-215-426-91 s METAL 1.6K 1% 1/6W  
 R219 1-215-425-91 s METAL 1.5K 1% 1/6W

△ R220 1-213-137-61 s METAL 330 5% 1W

R221 1-246-441-75 s CARBON 47 5% 1/4W  
 R222 1-247-831-01 s CARBON 1K 5% 1/4W  
 R223 1-247-837-91 s CARBON 1.8K 5% 1/4W  
 R224 1-247-835-91 s CARBON 1.5K 5% 1/4W

R225 1-213-135-61 s METAL 220 5% 1W  
 R226 1-247-841-91 s CARBON 2.7K 5% 1/4W  
 R227 1-215-446-91 s METAL 11K 1% 1/6W  
 R228 1-215-427-91 s METAL 1.8K 1% 1/6W  
 R229 1-214-669-71 s METAL 3.3 1% 1/4W

R230 1-206-652-61 s METAL 330 5% 2W  
 R231 1-206-652-61 s METAL 330 5% 2W

RV201 1-230-667-11 s VAR, CERMET 500

ST201 1-571-055-71 s THERMAL SENSOR

△ T101 1-448-393-11 s CONVERTER  
 T102 A-4935-035-A s CONVERTER  
 T103 1-421-819-11 s CURRENT

T104 1-437-188-11 s DRIVE  
 T105 1-437-188-11 s DRIVE

Ref No. Parts No. SP Description

T106 1-447-938-11 s CONVERTER

UR-21 M2 BOARD

A-4925-215-A o MOUNTED CIRCUIT BOARD, UR-21 M2

△ C151 1-136-185-12 s FILM 0.22 20% 250V  
 C152 1-136-185-12 s FILM 0.22 20% 250V  
 C154 1-136-185-12 s FILM 0.22 20% 250V  
 C155 1-161-742-12 s CERAMIC 2200PF 20% 400V  
 C156 1-161-742-12 s CERAMIC 2200PF 20% 400V

△ C157 1-161-742-12 s CERAMIC 2200PF 20% 400V  
 C158 1-161-742-12 s CERAMIC 2200PF 20% 400V  
 C159 1-161-742-12 s CERAMIC 2200PF 20% 400V

C161 1-136-564-11 s FILM 1.8 10% 250V  
 C162 1-136-564-11 s FILM 1.8 10% 250V

C163 1-161-915-11 s CERAMIC 1000PF 10% 500V  
 C164 1-161-915-11 s CERAMIC 1000PF 10% 500V

△ C165 1-161-742-12 s CERAMIC 2200PF 20% 400V  
 C166 1-161-742-12 s CERAMIC 2200PF 20% 400V  
 C167 1-161-742-12 s CERAMIC 2200PF 20% 400V

C251 1-161-915-11 s CERAMIC 1000PF 10% 500V  
 C252 1-161-915-11 s CERAMIC 1000PF 10% 500V  
 C253 1-124-556-51 s ELECT 2200 20% 16V  
 C254 1-124-555-51 s ELECT 1000 20% 16V  
 C255 1-124-923-91 s ELECT 0.47 20% 100V

C256 1-124-898-51 s ELECT 4700 20% 16V  
 C257 1-124-898-51 s ELECT 4700 20% 16V  
 C258 1-124-898-51 s ELECT 4700 20% 16V  
 C260 1-124-563-51 s ELECT 2200 20% 25V  
 C263 1-130-518-91 s TEREPHTHALATE 0.015 10% 50V

C264 1-130-524-91 s TEREPHTHALATE 0.047 10% 50V  
 C265 1-130-524-91 s TEREPHTHALATE 0.047 10% 50V  
 C268 1-130-772-21 s FILM 0.22 10% 63V  
 C269 1-130-772-21 s FILM 0.22 10% 63V  
 C270 1-130-772-21 s FILM 0.22 10% 63V

△ CN151 1-564-215-11 o PIN, 4P

CN251 1-566-313-11 o PIN, 7P  
 CN252 1-560-893-11 o PIN, 5P  
 CN253 1-560-890-21 o PIN, 2P

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



| Ref No. | Parts No. | SP | Description |
|---------|-----------|----|-------------|
|---------|-----------|----|-------------|

|      |              |   |          |
|------|--------------|---|----------|
| D151 | 1-807-907-11 | s | KB088JLM |
| D153 | 1-807-913-21 | s | 11EQS04  |
| D154 | 1-807-913-21 | s | 11EQS04  |
| D251 | 1-807-909-11 | s | F10P201  |
| D252 | 1-807-921-11 | s | FMG-34S  |

|      |              |   |            |
|------|--------------|---|------------|
| D253 | 1-807-911-21 | s | F10P40FR   |
| D254 | 8-719-109-97 | s | RD6.8ES-B2 |
| D255 | 8-719-912-00 | s | 1SS120     |
| D256 | 8-719-912-00 | s | 1SS120     |
| D257 | 8-719-200-01 | s | 10E-1      |

|      |              |   |        |
|------|--------------|---|--------|
| D258 | 8-719-911-19 | s | 1SS119 |
| D260 | 8-719-912-20 | s | 1SS120 |

|        |              |   |                 |
|--------|--------------|---|-----------------|
| △ F151 | 1-532-604-21 | s | FUSE, 250V 0.3A |
|--------|--------------|---|-----------------|

|       |              |   |  |
|-------|--------------|---|--|
| FB251 | 1-543-060-11 | s |  |
| FB252 | 1-543-060-11 | s |  |
| FB253 | 1-543-060-11 | s |  |
| FB254 | 1-543-060-11 | s |  |
| FB255 | 1-543-060-11 | s |  |
| FB256 | 1-543-060-11 | s |  |

|       |              |   |              |
|-------|--------------|---|--------------|
| IC251 | 8-759-007-33 | s | TL431CLP(TI) |
|-------|--------------|---|--------------|

|        |              |   |             |
|--------|--------------|---|-------------|
| △ L151 | 1-421-590-11 | s | LINE FILTER |
|--------|--------------|---|-------------|

|      |              |   |             |
|------|--------------|---|-------------|
| L251 | A-4935-039-A | s | CHOKE       |
| L252 | 1-421-459-21 | s | CHOKE       |
| L253 | 1-421-734-11 | s | CHOKE       |
| L254 | 1-408-322-11 | s | CHOKE       |
| L255 | 1-421-459-21 | s | CHOKE       |
| L512 | 1-421-978-11 | s | LINE FILTER |

|      |              |   |         |
|------|--------------|---|---------|
| Q151 | 1-807-858-11 | s | IREP451 |
| Q152 | 1-807-858-11 | s | IREP451 |
| Q153 | 8-729-113-32 | s | 2SB733  |
| Q154 | 8-729-113-32 | s | 2SB733  |
| Q251 | 8-729-178-54 | s | 2SC2785 |

|      |              |   |         |
|------|--------------|---|---------|
| Q252 | 1-807-195-11 | s | 2SC3692 |
| Q253 | 8-729-178-54 | s | 2SC2785 |

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|------|--------------|---|---------------------|
| R151 | 1-202-727-11 | s | SOLID 4.7M 10% 1/2W |
|------|--------------|---|---------------------|

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|--------|--------------|---|----------------------|
| △ R152 | 1-205-915-11 | s | WIREWOUND 4.7 10% 7W |
| R153   | 1-205-915-11 | s | WIREWOUND 4.7 10% 7W |
| R154   | 1-247-692-51 | s | CARBON 22 5% 1/4W    |

|      |              |   |                   |
|------|--------------|---|-------------------|
| R155 | 1-247-692-51 | s | CARBON 22 5% 1/4W |
|------|--------------|---|-------------------|

| Ref No. | Parts No. | SP | Description |
|---------|-----------|----|-------------|
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|      |              |   |                   |
|------|--------------|---|-------------------|
| R156 | 1-247-831-91 | s | CARBON 1K 5% 1/4W |
| R157 | 1-247-831-91 | s | CARBON 1K 5% 1/4W |

|        |              |   |                 |
|--------|--------------|---|-----------------|
| △ R158 | 1-205-652-11 | s | CEMENT 68 5% 5W |
| R251   | 1-205-622-11 | s | CEMENT 33 5% 5W |

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|------|--------------|---|---------------------|
| R252 | 1-247-835-91 | s | CARBON 1.5K 5% 1/4W |
|------|--------------|---|---------------------|

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|------|--------------|---|--------------------|
| R253 | 1-247-855-91 | s | CARBON 10K 5% 1/4W |
|------|--------------|---|--------------------|

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|--------|--------------|---|----------------|
| △ R254 | 1-213-135-61 | s | FILM 220 5% 1W |
|--------|--------------|---|----------------|

|      |              |   |                     |
|------|--------------|---|---------------------|
| R255 | 1-247-839-91 | s | CARBON 2.2K 5% 1/4W |
| R256 | 1-247-843-91 | s | CARON 3.3K 5% 1/4W  |
| R257 | 1-247-859-91 | s | CARBON 15K 5% 1/4W  |

|      |              |   |                  |
|------|--------------|---|------------------|
| R258 | 1-214-669-71 | s | FILM 3.3 1% 1/4W |
|------|--------------|---|------------------|

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| △ R259 | 1-206-652-61 | s | FILM 330 5% 2W |
| R260   | 1-206-652-61 | s | FILM 330 5% 2W |

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| RV251 | 1-230-668-11 | s | VAR, CERMET 1K |
|-------|--------------|---|----------------|

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|---------|--------------|---|-------|
| △ RY151 | 1-515-662-11 | s | POWER |
|---------|--------------|---|-------|

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| ST251 | 1-571-055-71 | s | THERMAL SENSOR |
|-------|--------------|---|----------------|

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|--------|--------------|---|-----------|
| △ T151 | A-4935-036-A | s | CONVERTER |
| T152   | 1-421-819-11 | s | CURRENT   |
| T153   | 1-437-188-11 | s | DRIVE     |
| T154   | 1-437-188-11 | s | DRIVE     |

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



Ref No. Parts No. SP Description

FRAME

A-6709-614-A s HEAD DRUM ASS'Y DUH-43A-R  
A-6709-615-A s UPPER DRUM ASS'Y DUR-43-R

1-559-298-11 o CABLE, FLAT 10P (KY-101 to SY-102)

CN912 1-562-227-41 s RECEPTACLE, BNC "VIDEO IN"  
CN913 1-562-227-41 s RECEPTACLE, BNC "VIDEO IN"  
CN914 1-562-227-41 s RECEPTACLE, BNC "REF VIDEO IN (EXT SYNC IN)"  
CN915 1-562-227-41 s RECEPTACLE, BNC "REF VIDEO IN (EXT SYNC IN)"  
CN916 1-562-227-21 s RECEPTACLE, BNC "SC IN"

CN917 1-561-577-21 s 8P(DIP TYPE) "MONITOR"  
CN918 1-561-045-00 s 7P(F) "DUB IN"  
CN919 1-566-622-11 s 7P(M) "DUB OUT"  
CN920 1-562-227-41 s RECEPTACLE, BNC "VIDEO OUT 1"  
CN921 1-562-227-41 s RECEPTACLE, BNC "VIDEO OUT 2"

CN922 1-562-227-41 s RECEPTACLE, BNC "MONITOR VIDEO"  
CN923 1-562-227-41 s RECEPTACLE, BNC "REF VIDEO OUT"  
CN924 1-562-227-21 s RECEPTACLE, BNC "RF (OFF TAPE)"  
CN925 1-562-227-21 s RECEPTACLE, BNC "TIME CODE IN"  
CN926 1-562-227-21 s RECEPTACLE, BNC "TIME CODE OUT"

CN927 1-563-030-21 s RECEPTACLE, XLR,3P(M) "AUDIO IN CH-1/L" (J)  
1-563-029-21 s RECEPTACLE, XLR,3P(F) "AUDIO IN CH-1/L" (UC)  
CN928 1-563-030-21 s RECEPTACLE, XLR,3P(M) "AUDIO IN CH-2/R" (J)  
1-563-029-21 s RECEPTACLE, XLR,3P(F) "AUDIO IN CH-2/R" (UC)  
CN929 1-563-029-21 s RECEPTACLE, XLR,3P(F) "AUDIO OUT CH-1/L" (J)  
1-563-030-21 s RECEPTACLE, XLR,3P(M) "AUDIO OUT CH-1/L" (UC)

CN930 1-563-029-21 s RECEPTACLE, XLR,3P(F) "AUDIO OUT CH-2/R" (J)  
1-563-030-21 s RECEPTACLE, XLR,3P(M) "AUDIO OUT CH-2/R" (UC)  
CN931 1-563-029-21 s RECEPTACLE, XLR,3P(F) "AUDIO OUT MONITOR" (J)  
1-563-030-21 s RECEPTACLE, XLR,3P(M) "AUDIO OUT MONITOR" (UC)

△ CN932 1-509-547-00 s AC INLET "AC IN"

CN934 1-560-769-00 s 15P, PLUG "TBC REMOTE"

△ F1 1-532-746-11 s FUSE, GLASS TUBE A

H1002 8-825-578-31 s ACE, EPS264-5803A "AUDIO/CTL/ERASE"  
H1003 8-825-544-20 s ERASE, EF232-58 "FULL ERASE"  
H1004 8-825-771-31 s PP295-58 "TIME CODE"

J1 1-507-553-00 s JACK "HEADPHONES"

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".



## 18-4. PACKING MATERIAL AND ACCESSORIES (SUPPLIED)

| Ref No. | Parts No.    | SP | Description                         |
|---------|--------------|----|-------------------------------------|
| M1001   | 8-835-258-01 | s  | DC, BHF-1915B "CAPSTAN"             |
| M1002   | 8-835-235-01 | s  | DC, MNR-2900B "T-REEL"              |
| M1003   | 8-835-235-01 | s  | DC, MNR-2900B "S-REEL"              |
| M1004   | 8-835-055-01 | s  | DC, DNR-4700A "LOADING"             |
| M1005   | 8-835-179-01 | s  | DC, MCB2B-15 "CASSETTE COMPARTMENT" |
| M1006   | 1-541-524-11 | s  | DC "FAN"                            |

|        |              |   |              |
|--------|--------------|---|--------------|
| ME1001 | 1-520-393-00 | s | "AUDIO CH-1" |
| ME1002 | 1-520-393-00 | s | "AUDIO CH-2" |
| ME1003 | 1-520-440-00 | s | "VIDEO/RF"   |

|         |              |   |                        |
|---------|--------------|---|------------------------|
| APM1001 | 1-454-417-31 | s | 12V 12/90ohm "S-BRAKE" |
| PM1002  | 1-454-417-31 | s | 12V 12/90ohm "T-BRAKE" |
| PM1003  | 1-454-416-31 | s | 12V 7/35ohm "PINCH"    |

|       |              |   |                |
|-------|--------------|---|----------------|
| AS901 | 1-570-117-11 | s | ROCKER "POWER" |
|-------|--------------|---|----------------|

| Part No.     | SP | Description              |
|--------------|----|--------------------------|
| A-6729-494-A | s  | EXTENSION BOARD, EX-127  |
| A-6729-495-A | s  | EXTENSION BOARD, EX-128  |
| 1-551-812-00 | s  | CORD, POWER              |
| 1-555-873-13 | s  | CABLE, REMOTE CONTROL 9P |
| 3-688-884-01 | o  | CUSHION, UPPER           |
| 3-688-885-01 | o  | CUSHION, LOWER           |
| 3-701-625-00 | s  | BAG, POLY (FOR EX-127)   |
| 3-701-632-00 | s  | BAG, POLY (FOR MANUAL)   |
| 3-701-634-00 | s  | BAG, POLY (FOR EX-128)   |
| 3-701-649-00 | s  | BAG, POLY (FOR VTR)      |
| 3-718-783-01 | s  | INDIVIDUAL CARTON        |
| 3-718-784-01 | s  | SLEEVE                   |
| 3-718-785-01 | s  | SPACER                   |
| Standard     |    | DUBBING CABLE, VDC-5     |
| Products     |    |                          |
| 1-508-948-00 | s  | CONNECTOR, MALE          |
| 1-561-055-00 | s  | CONNECTOR, FEMALE        |

## 18-5. FIXTURE (OPTION)

| Part No.     | SP | Description                               |
|--------------|----|---|
| J-6001-820-A | s  | DRUM ECCENTRICITY GAUGE (3)               |
| J-6001-830-A | s  | DRUM ECCENTRICITY GAUGE (2)               |
| J-6001-840-A | s  | DRUM ECCENTRICITY GAUGE (1)               |
| J-6001-930-A | s  | DRUM ECCENTRICITY GAUGE (4)               |
| J-6009-830-A | s  | FLATNESS PLATE                            |
| J-6026-240-A | s  | ADJUSTMENT DRIVER                         |
| J-6130-010-A | s  | REEL TABLE HEIGHT CHECK BASE JIG          |
| J-6130-020-A | s  | REEL TABLE HEIGHT CHECK JIG               |
| J-6150-140-A | s  | ECCENTRIC SCREWDRIVER (6 MM DIA.)         |
| J-6153-020-A | s  | DIHEDRAL ADJUSTMENT SCREWDRIVER           |
| J-6153-720-A | s  | REEL MOTOR SHAFT SLANTNESS ADJUSTMENT JIG |
| J-6153-730-A | s  | HEXAGONAL SCREWDRIVER (1.27 MM)           |
| Y-2031-001-0 | s  | CLEANING FLUID                            |
| 2-034-697-00 | s  | CLEANING PIECE                            |
| 3-702-390-01 | s  | ECCENTRIC SCREWDRIVER (4 MM DIA.)         |
| 3-702-391-01 | s  | ECCENTRIC SCREWDRIVER (5 MM DIA.)         |
| 7-700-736-01 | s  | L-SHAPED HEXAGONAL WRENCH (1.27 mm)       |
| 7-700-736-05 | s  | L-SHAPED HEXAGONAL WRENCH (1.5 MM)        |
| 7-723-902-00 | s  | DENTAL MIRROR                             |
| 7-732-050-30 | s  | TENSION SCALE (100G FULL SCALE)           |
| 7-732-050-40 | s  | TENSION SCALE (200G FULL SCALE)           |
| 8-960-015-16 | s  | ALIGNMENT TAPE, RR5-4SB                   |
| 8-960-037-02 | s  | ALIGNMENT TAPE, RR2-1SD                   |
| 8-960-037-80 | s  | ALIGNMENT TAPE, RR5-1SD                   |
| 8-899-999-53 | s  | TORQUE MEASUREMENT TAPE (100 MM DIA.)     |
| 9-911-053-00 | s  | THICKNESS GAUGE                           |
| Standard     |    | HEAD DEMAGNETIZER, HE-4                   |
| Products     |    |   |

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